

**Flood Control Project Maintenance
Levee Inspections**

Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0150	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Reclamation District No. 0150 Merrit Island	M *	17.74						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.06	0.02	0.14	0.79%	0.42	1.11		
Trim / Thin Trees	0.02	0.04	0.18	1.01%				
Encroachments	0.36		0.36	2.03%	0.49	0.08		
Animal Control	0.02	0.01	0.06	0.34%				
Slope Stability	0.08		0.08	0.45%			0.01	
Erosion / Bank Caving	0.08	0.01	0.12	0.68%			0.03	
Crown Surface / Depressions / Rutting	0.01		0.01	0.06%				
<i>Supplemental</i>								
2017 USACE Erosion Survey, DRAFT		0.07	0.28	1.58%				
DWR UCIP Field Study					0.28	0.03		
<i>LMA Totals:</i>	0.63	0.15	1.23	6.93% *	1.19	1.22	0.04	0.00
Unit No. 01 Sutter Slough LB	Overall Unit Rating	Total Unit Miles						
RD0150	A	0.52						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.01		0.01	1.93%				
<i>Unit Totals:</i>	0.01	0.00	0.01	1.93%	0.00	0.00	0.00	0.00
Unit No. 02 Sacramento River RB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD0150	M *	7.81						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.03		0.03	0.38%	0.33	0.76		
Trim / Thin Trees	0.02		0.02	0.26%				
Encroachments	0.25		0.25	3.20%	0.07	0.06		
Animal Control	0.01		0.01	0.13%				
Slope Stability	0.05		0.05	0.64%				
Erosion / Bank Caving	0.02		0.02	0.26%				
<i>Supplemental</i>								
2017 USACE Erosion Survey, DRAFT		0.07	0.28	3.58%				
DWR UCIP Field Study					0.17	0.01		
<i>Unit Totals:</i>	0.38	0.07	0.66	8.45% *	0.57	0.83	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 03 Elk Slough LB		Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD0150		M *	9.41						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Vegetation	0.03	0.02	0.11	1.17%	0.09	0.35			
Trim / Thin Trees		0.04	0.16	1.70%					
Encroachments	0.11		0.11	1.17%	0.42	0.02			
Animal Control		0.01	0.04	0.42%					
Slope Stability	0.03		0.03	0.32%			0.01		
Erosion / Bank Caving	0.06	0.01	0.10	1.06%			0.03		
Crown Surface / Depressions / Rutting	0.01		0.01	0.11%					
Supplemental									
DWR UCIP Field Study					0.11	0.02			
Unit Totals:	0.24	0.08	0.56	5.95% *	0.62	0.39	0.04	0.00	

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2018 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

* Overall LMA Threshold Percent is less than
10.00%; however, U Rated Miles are present,
so the Overall LMA Rating is M instead of A.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

Waterway			Bank	Unit Miles
Unit No. 01 Sutter Slough			Left	0.52
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/26/2018 - 4/26/2018		11/9/2018 - 11/9/2018	
DWR Inspector	Dave Torres		Luz Dial	
Accompanied By	David Julian DWR		Michael Moncrief MBK	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	11/09/2018 11/09/2018	Luz Dial

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0150_01_s_2013_4				
Comment Code					
Inspector Comment					
This LMA has the updated O&M manuals for their district.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0150_01_s_2013_5				
Comment Code					
Inspector Comment					
This LMA has adequate amount of flood fighting materials in a centralized location.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0150_01_s_2013_6				
Comment Code					
Inspector Comment					
The crew of this LMA had flood fighting training from DWR.					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	11/09/2018 11/09/2018	Luz Dial

LM Start	0.00	Rating **	A	Issue No.	1
LM End	0.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.332642 °	38.328362 °
				-121.583471 °	-121.576783 °
DWR ID	DWR_RD0150_01_f_2018_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is maintained.					

Photo 1 of 1 : FA_2018_RD0150_15_1_20181115_00002.jpg



View of landside vegetation. Fall 2018

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.332642 °	38.328362 °
				-121.583471 °	-121.576783 °
DWR ID	DWR_RD0150_01_f_2018_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is maintained.					

Photo 1 of 1 : FA_2018_RD0150_15_2_20181115_00001.jpg



View of waterside vegetation. Fall 2018

LM Start	0.49	Rating **	M	Issue No.	3
LM End	0.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.328242 °	38.328242 °
				-121.576573 °	-121.576573 °
DWR ID	DWR_RD0150_01_f_2018_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Backfill rodent holes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Right	7.81
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	4/17/2018 - 4/18/2018		11/9/2018 - 11/9/2018	
DWR Inspector	Dave Torres		Luz Dial	
Accompanied By				

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

Summer & Winter Inspections

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DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

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<http://cdec.water.ca.gov/lma.html>

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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.11	Rating **	A/W	Issue No.	46
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.329369°	38.329767°
				-121.574936°	-121.574589°
DWR ID	DWR_RD0150_02_f_2017_46				
Comment Code					

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: The flood damage consists of a waterside erosion approximately 185 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.

Site ID No: 286

Site Designation: LMA-112

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/17/2017

Notes: Crown is a paved road. Scarps upto 3 ft deep, not fully vertical though. Area of concern because erosion is not very deep into prism.

LM Start	0.11	Rating **	A/W	Issue No.	46 (cont)
LM End	0.14	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : LEVAL_FA_2018_286_1942.jpg



Photo 2 of 3 : LEVAL_FA_2018_286_2138.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.11	Rating **	A/W	Issue No.	46 (cont)
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.329369 °	38.329767 °
				-121.574936 °	-121.574589 °
DWR ID	DWR_RD0150_02_f_2017_46				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 185 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:286					
Site Designation:LMA-112					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Crown is a paved road. Scarps upto 3 ft deep, not fully vertical though. Area of concern because erosion is not very deep into prism.					

Photo 3 of 3 : LEVAL_FA_2018_286_2140.jpg



LM Start	0.14	Rating **	U	Issue No.	106
LM End	0.16	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.329782 °	38.330058 °
				-121.574820 °	-121.574574 °
DWR ID	DWR_RD0150_02_s_2018_106				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landowner needs to maintain vegetation and remove unpermitted fruit trees on levee slope.					

Photo 1 of 1 : FA_2018_RD0150_16_106_20181115_00135.jpg



View of landscaping that needs to be maintained and of unpermitted citrus trees on levee slope. Fall 2018

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.14	Rating **	A/W	Issue No.	5
LM End	4.77	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.329782 °	38.374641 °
				-121.574769 °	-121.524730 °
DWR ID	DWR_RD0150_02_s_2012_5				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_5_20180910_00002.jpg



View of the re-vegetation sign. Spring 2016

LM Start	0.16	Rating **	U	Issue No.	49
LM End	0.16	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.330047 °	38.330047 °
				-121.574538 °	-121.574538 °
DWR ID	DWR_RD0150_02_s_2012_49				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_49_20180910_00027.jpg



Building located on waterside of levee.

LM Start	0.17	Rating **	M	Issue No.	990
LM End	0.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.330173 °	38.330576 °
				-121.574490 °	-121.574093 °
DWR ID	DWR_RD0150_02_s_2012_990				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_990_20180910_00072.jpg



Landscaping was found on the landside of the levee looking upstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.18	Rating **	U	Issue No.	105
LM End	0.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.330339 °	38.330500 °
				-121.574311 °	-121.574138 °
DWR ID	DWR_RD0150_02_s_2018_105				
Comment Code					
FE : Fence					
Inspector Comment					
Landowner has installed a fence blocking access to levee.					

Photo 1 of 1 : FA_2018_RD0150_16_105_20180910_00061.jpg



Iron fence was not included under Permit 17359-A; only retaining wall, terraced slope, and steps were approved on landside. Spring 2018

LM Start	0.23	Rating **	M	Issue No.	991
LM End	0.23	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.330888 °	38.330888 °
				-121.573769 °	-121.573769 °
DWR ID	22416				
Comment Code					
Inspector Comment					
FS_ID:42700 DS_ID:22416 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- Dense vegetation on waterside.- Seems abandoned pipe and pump. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 2.8 feet below the crown. Pump on the landside (LS). Concrete box on the LS. (Thomas Estate). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.23)]. FS Date: 8/27/2013					

Photo 1 of 3 : UCIP_FA_2018_42700_34247.jpg



WS view: No pipe found on waterside slope. Dense vegetation on waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.23	Rating **	M	Issue No.	991 (cont)	
LM End	0.23	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.330888 °		38.330888 °
				-121.573769 °		-121.573769 °
DWR ID	22416					
Comment Code						
Inspector Comment						
FS_ID:42700 DS_ID:22416 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- Dense vegetation on waterside.- Seems abandoned pipe and pump. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 2.8 feet below the crown. Pump on the landside (LS). Concrete box on the LS. (Thomas Estate). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.23)]. FS Date: 8/27/2013						

Photo 2 of 3 : UCIP_FA_2018_42700_34246.jpg



LS view: abandoned pipe and pump on landside toe.

LM Start	0.23	Rating **	M	Issue No.	991 (cont)
LM End	0.23	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2018_42700_34245.jpg



LS view: abandoned pipe and concrete box on landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

Photo 1 of 1 : FA_2018_RD0150_16_4_20180910_00001.jpg



Landscaping on landward slope of the levee.

No Photos

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.38	Rating **	M	Issue No.	6
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.332598°	38.332598°
				-121.572179°	-121.572179°
DWR ID	DWR_RD0150_02_s_2012_6				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					



View of slope instability around stairway. Fall 2018

LM Start	0.38	Rating **	M	Issue No.	6 (cont)
LM End	0.38	Issue Type +	Ma	Location *	WS



View of slope instability on the waterside of the levee. Fall 2016

LM Start	0.38	Rating **	M	Issue No.	13
LM End	0.38	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.332647 °	38.332647 °
				-121.572140 °	-121.572140 °
DWR ID	DWR_RD0150_02_s_2012_13				
Comment Code					
ST : Stairway					
Inspector Comment					



A stairway was found on the waterside of the levee. The picture was taken from the crown looking upstream. Spring 2011

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.39	Rating **	M	Issue No.	992	
LM End	0.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.332670 °	38.332670 °	
				-121.572132 °	-121.572132 °	
DWR ID	22417					
Comment Code						
Inspector Comment						
FS_ID:20268 DS_ID:22417 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - Water leaks from pressure breaker.- Distribution box at the landward toe not found/visible.- Service pole on LS toe. FIELD_STRUCT_DESC: 4-inch steel irrigation discharge pipe joined to a 6-inch steel irrigation discharge pipe which is in turn joined to a 10-inch steel irrigation discharge pipe through the levee, 5.8 feet below the crown. 1.5-inch electrical conduit through the levee, 3 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Retention of an irrigation pumping plant, centrifugal pump, and gate valve on the WS levee slope with a 10-inch pipe through the levee authorized under Permit No. 9448, 1974 - William N. Runyon). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/27/2013						

Photo 1 of 3 : UCIP_FA_2018_20268_34244.jpg



WS view: walkway/stairs, pump on levee slope.

LM Start	0.39	Rating **	M	Issue No.	992 (cont)
LM End	0.39	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_20268_34243.jpg



WS view: pump, electric control box, electric conduit on concrete pad.
Water leaks from pressure breaker.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.39	Rating **	M	Issue No.	992 (cont)	
LM End	0.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.332670 °	38.332670 °	
				-121.572132 °	-121.572132 °	
DWR ID	22417					
Comment Code						
Inspector Comment						
FS_ID:20268						
DS_ID:22417						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - Water leaks from pressure breaker.- Distribution box at the landward toe not found/visible.- Service pole on LS toe.						
FIELD_STRUCT_DESC: 4-inch steel irrigation discharge pipe joined to a 6-inch steel irrigation discharge pipe which is in turn joined to a 10-inch steel irrigation discharge pipe through the levee, 5.8 feet below the crown. 1.5-inch electrical conduit through the levee, 3 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Retention of an irrigation pumping plant, centrifugal pump, and gate valve on the WS levee slope with a 10-inch pipe through the levee authorized under Permit No. 9448, 1974 - William N. Runyon). [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 8/27/2013						

Photo 3 of 3 : UCIP_FA_2018_20268_34242.jpg



LS view: distribution box not found/visible on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.46	Rating **	M	Issue No.	993	
LM End	0.46	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.333527°	38.333527°	
				-121.571274°	-121.571274°	
DWR ID	22418					
Comment Code						
Inspector Comment						
FS_ID:20267						
DS_ID:22418						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - Abandoned pipe and pump.- Needs proper abandonment.						
FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe and a 1-inch electrical conduit through the levee, invert elevation 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. Electrical box on the WS slope. (Retention of an irrigation pumping plant, centrifugal pump, and gate valve on the WS with a 6-inch pipe through the levee authorized under Permit No. 9447, 1974 - Reuben A. Gentner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.47)].						
FS Date: 8/27/2013						

LM Start	0.46	Rating **	M	Issue No.	993 (cont)
LM End	0.46	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_20267_34239.jpg



WS view: steel pipe and pump on levee slope. Dense vegetation on waterside.

Photo 2 of 3 : UCIP_FA_2018_20267_34238.jpg



WS view: steel pipe and pump on concrete pad. Seems abandoned.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.46	Rating **	M	Issue No.	993 (cont)	
LM End	0.46	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.333527°	38.333527°	
				-121.571274°	-121.571274°	
DWR ID	22418					
Comment Code						
Inspector Comment						
FS_ID:20267						
DS_ID:22418						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - Abandoned pipe and pump.- Needs proper abandonment.						
FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe and a 1-inch electrical conduit through the levee, invert elevation 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. Electrical box on the WS slope. (Retention of an irrigation pumping plant, centrifugal pump, and gate valve on the WS with a 6-inch pipe through the levee authorized under Permit No. 9447, 1974 - Reuben A. Gentner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.47)].						
FS Date: 8/27/2013						

Photo 3 of 3 : UCIP_FA_2018_20267_34237.jpg



WS view: steel pipe, gate valve, and pump on levee slope. Seems abandoned.

LM Start	0.48	Rating **	M	Issue No.	994
LM End	0.48	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.333754°	38.333754°
				-121.571018°	-121.571018°
DWR ID	22419				
Comment Code					
Inspector Comment					
FS_ID:20284 DS_ID:22419 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Needs proper abandonment. FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, invert elevation 5.7 feet below the crown. Power line on the landside (LS). (Retention of an irrigation pumping plant, a centrifugal pump, and an 8-inch steel pipe through the levee with a gate valve at the waterside [WS] end authorized under Permit No. 9446, 1974 - Hanna Olsen). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.49)]. FS Date: 8/27/2013					

Photo 1 of 2 : UCIP_FA_2018_20284_34265.jpg



WS view: abandoned pump on levee slope. Dense vegetation on waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.48	Rating **	M	Issue No.	994 (cont)	
LM End	0.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.333754 °		38.333754 °
				-121.571018 °		-121.571018 °
DWR ID	22419					
Comment Code						
Inspector Comment						
FS_ID:20284 DS_ID:22419 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Needs proper abandonment. FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, invert elevation 5.7 feet below the crown. Power line on the landside (LS). (Retention of an irrigation pumping plant, a centrifugal pump, and an 8-inch steel pipe through the levee with a gate valve at the waterside [WS] end authorized under Permit No. 9446, 1974 - Hanna Olsen). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.49)]. FS Date: 8/27/2013						

Photo 2 of 2 : UCIP_FA_2018_20284_34264.jpg



LS view: exposed steel pipe and power pole on levee toe.

LM Start	0.54	Rating **	N	Issue No.	66
LM End	0.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.334387 °	38.334387 °
				-121.570355 °	-121.570355 °
DWR ID	DWR_RD0150_02_f_2016_66				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.59	Rating **	M	Issue No.	45
LM End	0.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.334898 °	38.334898 °
				-121.569632 °	-121.569632 °
DWR ID	DWR_RD0150_02_f_2018_45				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_45_20181115_00138.jpg



View of slope damage likely from vehicle traffic. Fall 2018

LM Start	0.70	Rating **	M	Issue No.	995	
LM End	0.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.336183 °	38.336183 °	
				-121.568383 °	-121.568383 °	
DWR ID	22421					
Comment Code						
Inspector Comment						
FS_ID:20303 DS_ID:22421 EP_NO: 16109 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe on both sides of the levee. According to permit and inspectors note- 16" steel pipe through the levee.- concrete standpipe inside water filtration plant on landside toe.- air pressure tank on waterside steel deck. FIELD_STRUCT_DESC: 16-inch wrapped steel irrigation discharge pipe and a 2-inch electrical conduit through the levee, invert elevation 6.2 feet below the crown. Slant pump on a steel platform on the waterside (WS) slope. 4-inch abandoned pipe on the WS slope. Concrete standpipe and power pole at the landside (LS) toe. (Plans to replace an existing irrigation pipe with a 16-inch wrapped steel pipe through the levee, construct a 3-foot-square concrete anchorage block on the WS slope, and install a 2-inch utility pipe through the levee authorized under Permit No. 18258-Revised, 2007 - Wilson Farms, Inc). [Additional Reference(s): DWR Levee Log, 2005, 14-inch pipe referenced. USACE Sacramento O&M Manual 112, March 1957, (RM 34.71), 14-inch pipe referenced]. FS Date: 8/27/2013						

Photo 1 of 3 : UCIP_FA_2018_20303_34287.jpg



WS view: slant pump on steel deck, 4-inch pipe (left) and 10-inch pipe (right) on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.70	Rating **	M	Issue No.	995 (cont)	
LM End	0.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.336183 °	38.336183 °	
				-121.568383 °	-121.568383 °	
DWR ID	22421					
Comment Code						
Inspector Comment						
FS_ID:20303 DS_ID:22421 EP_NO: 16109 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe on both sides of the levee. According to permit and inspectors note- 16" steel pipe through the levee.- concrete standpipe inside water filtration plant on landside toe.- air pressure tank on waterside steel deck. FIELD_STRUCT_DESC: 16-inch wrapped steel irrigation discharge pipe and a 2-inch electrical conduit through the levee, invert elevation 6.2 feet below the crown. Slant pump on a steel platform on the waterside (WS) slope. 4-inch abandoned pipe on the WS slope. Concrete standpipe and power pole at the landside (LS) toe. (Plans to replace an existing irrigation pipe with a 16-inch wrapped steel pipe through the levee, construct a 3-foot-square concrete anchorage block on the WS slope, and install a 2-inch utility pipe through the levee authorized under Permit No. 18258-Revised, 2007 - Wilson Farms, Inc). [Additional Reference(s): DWR Levee Log, 2005, 14-inch pipe referenced. USACE Sacramento O&M Manual 112, March 1957, (RM 34.71), 14-inch pipe referenced]. FS Date: 8/27/2013						

LM Start	0.70	Rating **	M	Issue No.	995 (cont)
LM End	0.70	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_20303_34286.jpg



WS view: steel pipes and leaky slant pump on steel deck.

Photo 3 of 3 : UCIP_FA_2018_20303_34285.jpg



LS view: 10-inch pipe and air vent on levee slope. Concrete standpipe inside water filtration plant.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.71	Rating **	C	Issue No.	10
LM End	0.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.336228 °	38.336228 °
				-121.568332 °	-121.568332 °
DWR ID	DWR_RD0150_02_s_2013_10				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

LM Start	0.71	Rating **	M	Issue No.	59
LM End	0.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.336291 °	38.336291 °
				-121.568260 °	-121.568260 °
DWR ID	DWR_RD0150_02_s_2016_59				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Damaged tree roots and trunks appear to damage landside slope of the levee and need to be removed.					

Photo 1 of 2 : FA_2018_RD0150_16_59_20180910_00040.jpg



View of the tree trunk on the landside of the levee. Fall 2017

LM Start	0.71	Rating **	M	Issue No.	59 (cont)
LM End	0.71	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2018_RD0150_16_59_20180910_00041.jpg



View of the tree limbs and roots on the landside of the levee looking downstream. Fall 2016

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	0.79	Rating **	M	Issue No.	73
LM End	0.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.337307°	38.337307°
				-121.567698°	-121.567698°
DWR ID	DWR_RD0150_02_f_2017_73				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Landowner needs to remove dead tree from easement.					

Photo 1 of 1 : FA_2018_RD0150_16_73_20181115_00134.jpg



View of fallen tree on landside levee slope. Fall 2018

LM Start	0.96	Rating **	M	Issue No.	102
LM End	0.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.338976 °	38.339249 °
				-121.565267 °	-121.564937 °
DWR ID	DWR_RD0150_02_s_2018_102				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	0.97	Rating **	U	Issue No.	12
LM End	0.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.339035 °	38.339035 °
				-121.565145 °	-121.565145 °
DWR ID	DWR_RD0150_02_s_2012_12				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_12_20180910_00007.jpg



Overgrown trees were obstructing the landside slope of the levee looking upstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	1.14	Rating **	N	Issue No.	8
LM End	1.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.340864 °	38.340864 °
				-121.562915 °	-121.562915 °
DWR ID	DWR_RD0150_02_s _ 2012_8				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_8_20180910_00005.jpg



View of a tree stump on the landward slope.

LM Start	1.26	Rating **	C	Issue No.	92
LM End	1.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.342229 °	38.342229 °
				-121.561694 °	-121.561694 °
DWR ID	DWR_RD0150_02_s _ 2012_92				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	1.32	Rating **	U	Issue No.	91
LM End	1.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.343010 °	38.343276 °
				-121.561096 °	-121.560739 °
DWR ID	DWR_RD0150_02_s_2012_91				
Comment Code					
V6 : Landscaping					
Inspector Comment					
LMA needs to collect prunings from maintenance on shoulder.					

Photo 1 of 2 : FA_2018_RD0150_16_91_20180910_00057.jpg



Landscaping was obstructing the view of the landside slope of the levee looking downstream. This picture was taken during spring 2013 inspection.

LM Start	1.32	Rating **	U	Issue No.	91 (cont)
LM End	1.35	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2018_RD0150_16_91_20180910_00058.jpg



Landscaping was found landside of the levee looking upstream. Fall 2011

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	1.34	Rating **	M	Issue No.	996	
LM End	1.34	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.343136 °	38.343136 °	
				-121.560868 °	-121.560868 °	
DWR ID	22393					
Comment Code						
Inspector Comment						
FS_ID:20727						
DS_ID:22393						
EP_NO: 18221						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside.Pumps on piling structure with shed in drainage ditch.Siphon breaker cover missing. Needs to fix it.						
FIELD_STRUCT_DESC: [Reclamation District No. 150 (RD0150) Drainage Plant] 1 of 2: 30-inch steel drainage discharge pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Siphon breaker on the WS slope. Pump on a piling structure with a shed in the drainage ditch. (Plans to replace existing 36-inch and 24-inch discharge pipes with 30-inch and 24-inch steel discharge pipes through the levee authorized under Permit No. 18221, 2007 - RD0150). [Additional Reference(s): DWR Levee Log, 2005, 36-inch pipe referenced, 9 feet below the crown. USACE Sacramento O&M Manual 112, March 1957, (RM 35.36), 36-inch pipe referenced, invert elevation 9 feet below the crown].						
FS Date: 8/27/2013						

LM Start	1.34	Rating **	M	Issue No.	996 (cont)
LM End	1.34	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_20727_34889.jpg



Bird's eye view: outfall pipes (bottom) and pump structure in drainage ditch (top)

Photo 2 of 3 : UCIP_FA_2018_20727_34888.jpg



WS view: siphon breaker in pipe riser on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	1.34	Rating **	M	Issue No.	996 (cont)	
LM End	1.34	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.343136 °	38.343136 °	
				-121.560868 °	-121.560868 °	
DWR ID	22393					
Comment Code						
Inspector Comment						
FS_ID:20727 DS_ID:22393 EP_NO: 18221 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside.Pumps on piling structure with shed in drainage ditch.Siphon breaker cover missing. Needs to fix it. FIELD_STRUCT_DESC: [Reclamation District No. 150 (RD0150) Drainage Plant] 1 of 2: 30-inch steel drainage discharge pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Siphon breaker on the WS slope. Pump on a piling structure with a shed in the drainage ditch. (Plans to replace existing 36-inch and 24-inch discharge pipes with 30-inch and 24-inch steel discharge pipes through the levee authorized under Permit No. 18221, 2007 - RD0150). [Additional Reference(s): DWR Levee Log, 2005, 36-inch pipe referenced, 9 feet below the crown. USACE Sacramento O&M Manual 112, March 1957, (RM 35.36), 36-inch pipe referenced, invert elevation 9 feet below the crown]. FS Date: 8/27/2013						

Photo 3 of 3 : UCIP_FA_2018_20727_34887.jpg



WS view: submerged flap gate in the stream.

LM Start	1.46	Rating **	C	Issue No.	96
LM End	1.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.344207 °	38.344207 °
				-121.559072 °	-121.559072 °
DWR ID	DWR_RD0150_02_s_2018_96				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	1.73	Rating **	M	Issue No.	48
LM End	1.73	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.345583 °	38.345583 °
				-121.554507 °	-121.554507 °
DWR ID	DWR_RD0150_02_f_2014_48				
Comment Code					
PO : Pole					
Inspector Comment					
A pole was found on the waterside slope of the levee. Most probably is connected to a pump.					

Photo 1 of 1 : FA_2018_RD0150_16_48_20180910_00026.jpg



A pole/pipe was found on the waterside slope of the levee looking upstream. Fall 2014

LM Start	1.80	Rating **	M	Issue No.	30
LM End	2.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.345937 °	38.346786 °
				-121.553190 °	-121.549332 °
DWR ID	DWR_RD0150_02_f_2018_30				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	1.81	Rating **	C	Issue No.	101
LM End	1.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.345983 °	38.345983 °
				-121.553075 °	-121.553075 °
DWR ID	DWR_RD0150_02_s_2018_101				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	1.91	Rating **	M	Issue No.	997
LM End	1.91	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.346448 °	38.346448 °
				-121.551293 °	-121.551293 °
DWR ID	22395				
Comment Code					
Inspector Comment					
FS_ID:20348					
DS_ID:22395					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - Operating during inspection.- Overhead powerline crossing- CMP riser with siphon breaker needs cleaning.					
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 4 feet below the crown. Pump on a piling structure in the river. Power poles on both slopes. Ramp on the landside (LS) slope. Siphon breaker on the LS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 35.94)].					
FS Date: 8/27/2013					

LM Start	1.91	Rating **	M	Issue No.	997 (cont)
LM End	1.91	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_20348_34371.jpg



WS view: service pole, pipe & pump on piling structure in the stream.

Photo 2 of 3 : UCIP_FA_2018_20348_34370.jpg



WS view: pipe & pump on piling structure in the stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	1.91	Rating **	M	Issue No.	997 (cont)	
LM End	1.91	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.346448 °		38.346448 °
				-121.551293 °		-121.551293 °
DWR ID	22395					
Comment Code						
Inspector Comment						
FS_ID:20348						
DS_ID:22395						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - Operating during inspection.- Overhead powerline crossing- CMP riser with siphon breaker needs cleaning.						
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 4 feet below the crown. Pump on a piling structure in the river. Power poles on both slopes. Ramp on the landside (LS) slope. Siphon breaker on the LS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 35.94)].						
FS Date: 8/27/2013						

Photo 3 of 3 : UCIP_FA_2018_20348_34369.jpg



LS view: concrete distribution box on levee toe.

LM Start	2.10	Rating **	M	Issue No.	63
LM End	2.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.347002 °	38.347002 °
				-121.547803 °	-121.547803 °
DWR ID	DWR_RD0150_02_f _ 2016_63				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_63_20180910_00043.jpg



View of a tree trunk on the landside slope of the levee. Spring 2017

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	2.14	Rating **	M	Issue No.	998	
LM End	2.14	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.347032 °	38.347032 °	
				-121.547159 °	-121.547159 °	
DWR ID	22396					
Comment Code						
Inspector Comment						
FS_ID:20731						
DS_ID:22396						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - Operating during inspection. Leaky join at the concrete box.- Power overhead crossing. Power pole at waterside shoulder, and landside toe.						
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 5 feet below the crown. Slant pump on the waterside (WS) slope. Power pole on the WS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 36.17)].						
FS Date: 8/27/2013						

LM Start	2.14	Rating **	M	Issue No.	998 (cont)
LM End	2.14	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_20731_34902.jpg



WS view: slant pump on steel frame support and exposed pipe on levee slope.

Photo 2 of 3 : UCIP_FA_2018_20731_34901.jpg



LS view: concrete distribution box on levee toe and exposed steel pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	2.14	Rating **	M	Issue No.	998 (cont)	
LM End	2.14	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.347032 °		38.347032 °
				-121.547159 °		-121.547159 °
DWR ID	22396					
Comment Code						
Inspector Comment						
FS_ID:20731 DS_ID:22396 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - Operating during inspection. Leaky join at the concrete box.- Power overhead crossing. Power pole at waterside shoulder, and landside toe. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 5 feet below the crown. Slant pump on the waterside (WS) slope. Power pole on the WS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 36.17)]. FS Date: 8/27/2013						

Photo 3 of 3 : UCIP_FA_2018_20731_34903.jpg



LS view: leaky concrete distribution box on levee toe.

LM Start	2.14	Rating **	C	Issue No.	68
LM End	2.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.347083 °	38.347083 °
				-121.547063 °	-121.547063 °
DWR ID	DWR_RD0150_02_f_2017_68				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	2.20	Rating **	M	Issue No.	99
LM End	2.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.347168 °	38.347205 °
				-121.545977 °	-121.545679 °
DWR ID	DWR_RD0150_02_s _ 2018_99				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	2.28	Rating **	M	Issue No.	88
LM End	2.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.347355 °	38.347361 °
				-121.544628 °	-121.544280 °
DWR ID	DWR_RD0150_02_s _ 2012_88				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_88_20180910_00056.jpg



Unpermitted landscaping was found on the landside slope of the levee.
The picture was taken from the crown looking upstream. Spring 2011

LM Start	2.40	Rating **	M	Issue No.	98
LM End	2.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.347581 °	38.347811 °
				-121.542334 °	-121.541273 °
DWR ID	DWR_RD0150_02_s _ 2018_98				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side N/A : Not Applicable		A : Acceptable		Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable		Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable		En : Enforcement	
		N : Not Inspected/Rated			
		C : Corrected			
		A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	2.72	Rating **	M	Issue No.	70
LM End	2.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.349777 °	38.349777 °
				-121.537247 °	-121.537247 °
DWR ID	DWR_RD0150_02_s_2017_70				
Comment Code					
TA : Tank					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_70_20180910_00047.jpg



A tank was found on the landside toe of the levee. Spring 2017

LM Start	2.75	Rating **	N	Issue No.	14
LM End	2.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.350041 °	38.350041 °
				-121.536853 °	-121.536853 °
DWR ID	DWR_RD0150_02_s_2012_14				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_14_20180910_00009.jpg



View of a tree stump on the landward slope.

LM Start	2.97	Rating **	U	Issue No.	85
LM End	3.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.352372 °	38.352802 °
				-121.534127 °	-121.533638 °
DWR ID	DWR_RD0150_02_s_2012_85				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_85_20180910_00054.jpg



Landscaping providing a screen for a residence on the landside of levee.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.08	Rating **	U	Issue No.	95
LM End	3.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.353541 °	38.353822 °
				-121.532844 °	-121.532574 °
DWR ID	DWR_RD0150_02_s _ 2018_95				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trim trees on landside slope.					

Photo 1 of 1 : FA_2018_RD0150_16_95_20180910_00059.jpg



Vegetation landside looking southwest. Spring 2018

LM Start	3.24	Rating **	M	Issue No.	961
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s _ 2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

Photo 1 of 5 : FA_2018_RD0150_16_961_20180910_00065.jpg



View of the erosion on the waterside of the levee during spring 2015 inspection.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.24	Rating **	M	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s_2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

LM Start	3.24	Rating **	M	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS

Photo 2 of 5 : FA_2018_RD0150_16_961_20180910_00066.jpg



View of the erosion on the waterside slope of the levee near the pipe looking downstream. This picture was taken during the fall 2013 inspection.

Photo 3 of 5 : FA_2018_RD0150_16_961_20180910_00067.jpg



View of the erosion on the waterside slope of the levee looking upstream during spring 2013 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.24	Rating **	M	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s_2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

Photo 4 of 5 : FA_2018_RD0150_16_961_20180910_00068.jpg



View of erosion and damaged pipe and abandoned boat on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

LM Start	3.24	Rating **	M	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS

Photo 5 of 5 : FA_2018_RD0150_16_961_20180910_00069.jpg



View of the erosion site, and broken pump support along with a boat on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2011 inspection.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.24	Rating **	M	Issue No.	999	
LM End	3.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.355360 °	38.355360 °	
				-121.530838 °	-121.530838 °	
DWR ID	22402					
Comment Code						
Inspector Comment						
FS_ID:20736 DS_ID:22402 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe sleeved through 12" steel pipe.- main pipe bifurcates into two pipes on LS slope and connected to standpipe and concrete box.- 2" electric conduit on WS and power pole on LS.- needs filling into gap between 10" and 12" steel pipes on LS. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 4 feet below the crown. Pump on a piling structure in the river. Concrete standpipe and concrete distribution box at the landside (LS) toe. (A. Green). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 37.30)]. FS Date: 8/30/2013						

LM Start	3.24	Rating **	M	Issue No.	999 (cont)
LM End	3.24	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_20736_34917.jpg



WS view: pipe, conduit and pump on levee slope.

Photo 2 of 3 : UCIP_FA_2018_20736_34916.jpg



WS view: steel pipe and GI conduit on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

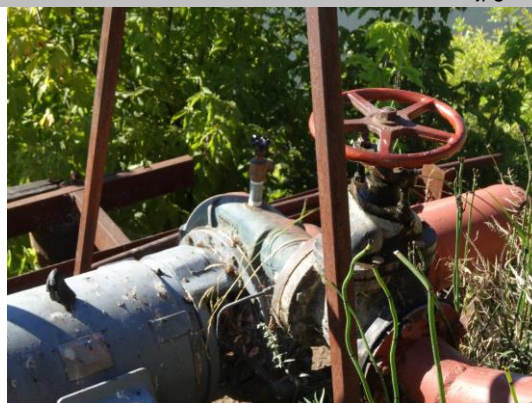
Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.24	Rating **	M	Issue No.	999 (cont)	
LM End	3.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.355360 °	38.355360 °	
				-121.530838 °	-121.530838 °	
DWR ID	22402					
Comment Code						
Inspector Comment						
FS_ID:20736 DS_ID:22402 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe sleeved through 12" steel pipe.- main pipe bifurcates into two pipes on LS slope and connected to standpipe and concrete box.- 2" electric conduit on WS and power pole on LS.- needs filling into gap between 10" and 12" steel pipes on LS. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 4 feet below the crown. Pump on a piling structure in the river. Concrete standpipe and concrete distribution box at the landside (LS) toe. (A. Green). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 37.30)]. FS Date: 8/30/2013						

Photo 3 of 3 : UCIP_FA_2018_20736_34915.jpg



WS view: pipe and pump on levee slope. Gate valve and air vent on the pipe.

LM Start	3.30	Rating **	M	Issue No.	17
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.355979 °	38.355979 °
				-121.530288 °	-121.530288 °
DWR ID	DWR_RD0150_02_s_2012_17				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry is partially blocking visibility.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.42	Rating **	A/W	Issue No.	47
LM End	3.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.357183 °	38.357631 °
				-121.528547 °	-121.527981 °
DWR ID	DWR_RD0150_02_f _ 2017_47				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 229 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:287					
Site Designation:LMA-113					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Crown is a paved road. Erosion scarps upto 10 ft deep and within 5 ft of crown. Worse conditions on the DS end. Exposed filter fabric. Serious because of depth of erosion into levee, weak soil, and proximity to crown which is a high traffic public road.					

Photo 1 of 3 : LEVAL_FA_2018_287_2143.jpg



LM Start	3.42	Rating **	A/W	Issue No.	47 (cont)
LM End	3.46	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : LEVAL_FA_2018_287_2146.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.42	Rating **	A/W	Issue No.	47 (cont)
LM End	3.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.357183 °	38.357631 °
				-121.528547 °	-121.527981 °
DWR ID	DWR_RD0150_02_f _ 2017_47				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 229 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:287					
Site Designation:LMA-113					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Crown is a paved road. Erosion scarps upto 10 ft deep and within 5 ft of crown. Worse conditions on the DS end. Exposed filter fabric. Serious because of depth of erosion into levee, weak soil, and proximity to crown which is a high traffic public road.					

Photo 3 of 3 : LEVAL_FA_2018_287_2149.jpg



LM Start	3.50	Rating **	M	Issue No.	1000
LM End	3.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.358094 °	38.358094 °
				-121.527619 °	-121.527619 °
DWR ID	22403				
Comment Code					
Inspector Comment					
FS_ID:19846					
DS_ID:22403					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - 8" pvc pipe sleeved into 12" steel pipe.- needs filling/grouting in gas between 8" pvc pipe and 12" steel pipe on WS.- 1.5" electric conduit on WS- 10" steel pipe extended to 8" pvc pipe on landside levee toe.					
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 3 feet below the crown. Pump and gate valve on the waterside (WS) slope. (R. and J. Pylman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 37.56)].					
FS Date: 8/30/2013					

Photo 1 of 3 : UCIP_FA_2018_19846_33727.jpg



WS view: pipe, pump, and conduit on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.50	Rating **	M	Issue No.	1000 (cont)	
LM End	3.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.358094 °	38.358094 °	
				-121.527619 °	-121.527619 °	
DWR ID	22403					
Comment Code						
Inspector Comment						
FS_ID:19846 DS_ID:22403 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 8" pvc pipe sleeved into 12" steel pipe.- needs filling/grouting in gap between 8" pvc pipe and 12" steel pipe on WS.- 1.5" electric conduit on WS- 10" steel pipe extended to 8" pvc pipe on landside levee toe. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 3 feet below the crown. Pump and gate valve on the waterside (WS) slope. (R. and J. Pylman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 37.56)]. FS Date: 8/30/2013						

Photo 2 of 3 : UCIP_FA_2018_19846_33726.jpg



WS view: steel conduit (right); 8" pvc pipe sleeved into 12" steel pipe.

LM Start	3.50	Rating **	M	Issue No.	1000 (cont)
LM End	3.50	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2018_19846_33725.jpg



LS view: exposed pipe on levee slope and standpipe on the toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.51	Rating **	M	Issue No.	1001
LM End	3.51	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.358131°	38.358131°
				-121.527540°	-121.527540°
DWR ID	22404				
Comment Code					
Inspector Comment					
FS_ID:19848 DS_ID:22404 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs proper abandonment. FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe of an unknown purpose on the landside (LS) slope. 1-inch steel conduit on the waterside (WS) slope was found. FS Date: 8/30/2013					

Photo 1 of 3 : UCIP_FA_2018_19848_33734.jpg



WS view: abandoned 1-inch conduit on levee slope.

LM Start	3.51	Rating **	M	Issue No.	1001 (cont)
LM End	3.51	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_19848_33733.jpg



LS view: exposed 4-inch steel pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	3.51	Rating **	M	Issue No.	1001 (cont)
LM End	3.51	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.358131°	38.358131°
				-121.527540°	-121.527540°
DWR ID	22404				
Comment Code					
Inspector Comment					
FS_ID:19848 DS_ID:22404 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs proper abandonment. FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe of an unknown purpose on the landside (LS) slope. 1-inch steel conduit on the waterside (WS) slope was found. FS Date: 8/30/2013					

Photo 3 of 3 : UCIP_FA_2018_19848_33732.jpg



LS view: abandoned 4-inch steel pipe on levee slope.

LM Start	3.54	Rating **	U	Issue No.	82
LM End	3.67	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.358530°	38.359749°
				-121.527162°	-121.525245°
DWR ID	DWR_RD0150_02_s_2012_82				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_82_20180910_00053.jpg



Landscaping was blocking the visibility on the landside of the levee looking upstream.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown


** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

Photo 1 of 1 : FA_2018_RD0150_16_80_20180910_00052.jpg



Landscaping in front of a residence on landside of levee. The levee in this location is greater than 100' wide.

Photo 1 of 1 : FA_2018_RD0150_16_33_20180910_00016.jpg



A photograph showing a makeshift metal stairway on a gravelly slope leading down to a body of water. A large metal barrel is lying on the stairs, and a blue object is visible near the bottom. A large tree is on the left, and the water is on the right.

A stairway was found on the waterside slope of the levee.

Photo 1 of 1 : FA_2018_RD0150_16_20_20180910_00010.jpg



View of a retaining wall on the landward slope looking upstream.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	4.11	Rating **	M	Issue No.	953
LM End	4.11	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.365267 °	38.365267 °
				-121.522379 °	-121.522379 °
DWR ID	DWR_RD0150_02_s_2012_953				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_953_20180910_00064.jpg



View of cacti on the landside of the levee looking from the crown.

LM Start	4.17	Rating **	M	Issue No.	1002	
LM End	4.17	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.366149°	38.366149°	
				-121.522352°	-121.522352°	
DWR ID	22407					
Comment Code						
Inspector Comment						
FS_ID:42702 DS_ID:22407 EP_NO: 13505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- no pipe and structure found on landside.- siphon breaker in 24" CMP riser on waterside.- control box and electric conduit on waterside slope. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, invert elevation 5 feet below the crown. Slant pump on the waterside (WS) slope. Siphon breaker on the WS slope in a corrugated metal pipe (CMP) riser. Control box and electrical conduit on the WS slope. (Plans to replace an existing pipeline with a 14-inch steel pipeline through the levee authorized under Permit No. 13505, 1982 - Gary Pylman). [Additional Reference(s): DWR Levee Log, 2005, 10-inch pipe referenced. USACE Sacramento O&M Manual 112, March 1957, (RM 38.24), 10-inch pipe referenced]. FS Date: 8/30/2013						

Photo 1 of 3 : UCIP_FA_2018_42702_33782.jpg



WS view: slanted pump on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	4.17	Rating **	M	Issue No.	1002 (cont)
LM End	4.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.366149°	38.366149°
				-121.522352°	-121.522352°
DWR ID	22407				
Comment Code					
Inspector Comment					
FS_ID:42702 DS_ID:22407 EP_NO: 13505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- no pipe and structure found on landside.- siphon breaker in 24" CMP riser on waterside.- control box and electric conduit on waterside slope. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, invert elevation 5 feet below the crown. Slant pump on the waterside (WS) slope. Siphon breaker on the WS slope in a corrugated metal pipe (CMP) riser. Control box and electrical conduit on the WS slope. (Plans to replace an existing pipeline with a 14-inch steel pipeline through the levee authorized under Permit No. 13505, 1982 - Gary Pylman). [Additional Reference(s): DWR Levee Log, 2005, 10-inch pipe referenced. USACE Sacramento O&M Manual 112, March 1957, (RM 38.24), 10-inch pipe referenced]. FS Date: 8/30/2013					

LM Start	4.17	Rating **	M	Issue No.	1002 (cont)
LM End	4.17	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_42702_33781.jpg



WS view: exposed 14-inch steel pipe on levee slope.

Photo 3 of 3 : UCIP_FA_2018_42702_33780.jpg



WS view: electric control box and electric conduit on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	4.26	Rating **	U	Issue No.	24
LM End	4.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.367442°	38.367740°
				-121.522427°	-121.522495°
DWR ID	DWR_RD0150_02_s_2012_24				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_24_20180910_00011.jpg



Landscaping (Oleander) on landward slope

LM Start	4.27	Rating **	M	Issue No.	107
LM End	4.27	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.367507 °	38.367507 °
				-121.522493 °	-121.522493 °
DWR ID	DWR_RD0150_02_s_2018_107				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove downed tree on waterside slope.					

Photo 1 of 1 : FA_2018_RD0150_16_107_20180910_00062.jpg



View of fallen tree on waterside looking northeast. Spring 2018

LM Start	4.30	Rating **	U	Issue No.	79
LM End	4.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.368036 °	38.368540 °
				-121.522611 °	-121.522729 °
DWR ID	DWR_RD0150_02_s_2012_79				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_79_20180910_00051.jpg



Trees were obstructing the views on the landside slope of the levee looking downstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	4.50	Rating **	U	Issue No.	44
LM End	4.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.370928 °	38.371909 °
				-121.523069 °	-121.523316 °
DWR ID	DWR_RD0150_02_f_2018_44				

Comment Code

Inspector Comment

2017 Site ID: SAC 38.5 R

Status: Critical

2017 Field Notes: New erosion pocket. Vertical section along lower bank, and cracking. Upgraded to critical.

Site History: 1999 - Downstream end (300 ft) repaired with rock. 2010 - Toe erosion, some vertical slopes lower down. 2011 - Failing rock repair. Slumping of the lower bank. Minor new erosion. 2013 - Tree at upstream end has exposed roots. Some new erosion.

Fall 2018 DWR Inspection: Erosion along lower bank and cracking not visible from levee crown due to vegetation.

LM Start	4.50	Rating **	U	Issue No.	44 (cont)
LM End	4.57	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA_2018_RD0150_16_44_20181115_00139.jpg



View of waterside slope. Fall 2018

Photo 2 of 2 : FA_2018_RD0150_16_44_20181115_00140.jpg



View of waterside slope. Fall 2018

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0150 Merrit Island

No Photos

Photo 1 of 1 : FA_2018_RD0150_16_28_20180910_00013.jpg



Century plant on waterward slope

Photo 1 of 1 : FA_2018_RD0150_16_76_20180910_00049.jpg



Trees were obstructing the view of the landside slope of the levee looking upstream.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	4.86	Rating **	C	Issue No.	90
LM End	4.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.375740 °	38.376181 °
				-121.525274 °	-121.525431 °
DWR ID	DWR_RD0150_02_s _ 2018_90				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	5.04	Rating **	A/W	Issue No.	50
LM End	5.12	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.378311 °	38.379458 °
				-121.525317 °	-121.524931 °
DWR ID	DWR_RD0150_02_f _ 2017_50				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 447 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:288					
Site Designation:LMA-114					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Crown is a paved road. Much of site was not accessible because of thorny veg. Scarps were only about 1 ft deep where it was accessible so rated it a lower priority. Irrigation pipe within the site. A boat view would be helpful here. Fall 2018 DWR Inspector: Erosion along bank not visible from levee crown.					

Photo 1 of 4 : FA_2018_RD0150_16_50_20181115_00141.jpg



View of waterside slope with some revetment. Fall 2018

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	5.04	Rating **	A/W	Issue No.	50 (cont)
LM End	5.12	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage		38.378311 °	38.379458 °	
			-121.525317 °	-121.524931 °	
DWR ID	DWR_RD0150_02_f_2017_50				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 447 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:288					
Site Designation:LMA-114					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Crown is a paved road. Much of site was not accessible because of thorny veg. Scarps were only about 1 ft deep where it was accessible so rated it a lower priority. Irrigation pipe within the site. A boat view would be helpful here. Fall 2018 DWR Inspector: Erosion along bank not visible from levee crown.					

Photo 2 of 4 : LEVAL_FA_2018_288_2155.jpg



LM Start	5.04	Rating **	A/W	Issue No.	50 (cont)
LM End	5.12	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : LEVAL_FA_2018_288_2156.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	5.04	Rating **	A/W	Issue No.	50 (cont)
LM End	5.12	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.378311 °	38.379458 °
				-121.525317 °	-121.524931 °
DWR ID	DWR_RD0150_02_f _ 2017_50				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 447 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:288					
Site Designation:LMA-114					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Crown is a paved road. Much of site was not accessible because of thorny veg. Scarps were only about 1 ft deep where it was accessible so rated it a lower priority. Irrigation pipe within the site. A boat view would be helpful here. Fall 2018 DWR Inspector: Erosion along bank not visible from levee crown.					

Photo 4 of 4 : LEVAL_FA_2018_288_2157.jpg



LM Start	5.05	Rating **	U	Issue No.	75
LM End	5.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.378543 °	38.379839 °
				-121.525362 °	-121.524968 °
DWR ID	DWR_RD0150_02_s_2012_75				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_75_20180910_00048.jpg



View of landscaping along the landward shoulder and slope looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	5.06	Rating **	A/W	Issue No.	40
LM End	7.81	Issue Type +	Ob	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.378674 °	38.414029 °	
			-121.525423 °	-121.522991 °	
DWR ID	DWR_RD0150_02_s _ 2012_40				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

No Photos

LM Start	5.20	Rating **	C	Issue No.	89
LM End	5.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.380544 °	38.380544 °	
			-121.524587 °	-121.524587 °	
DWR ID	DWR_RD0150_02_s _ 2018_89				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	5.24	Rating **	M	Issue No.	1003	
LM End	5.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.381079 °	38.381079 °	
				-121.524166 °	-121.524166 °	
DWR ID	22410					
Comment Code						
Inspector Comment						
FS_ID:20740						
DS_ID:22410						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - 2" electric conduit and gate valve on WS.-						
abandoned old pump not removed from WS- working during field						
survey						
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe and a 2-						
inch electrical conduit through the levee, invert elevation 3 feet below						
the crown. Service pole and standpipe at the landside (LS) toe. (C.						
Sakai). [Additional Reference(s): DWR Levee Log, 2005. USACE						
Sacramento O&M Manual 112, March 1957, (RM 39.32)].						
FS Date: 8/30/2013						

Photo 1 of 3 : UCIP_FA_2018_20740_34941.jpg



WS view: pipe, walkway, slant pump & pump platform on stream bank.

LM Start	5.24	Rating **	M	Issue No.	1003 (cont)
LM End	5.24	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_20740_34940.jpg



WS view: pipe, slant pump & pump platform on stream bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	5.24	Rating **	M	Issue No.	1003 (cont)	
LM End	5.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.381079 °	38.381079 °	
				-121.524166 °	-121.524166 °	
DWR ID	22410					
Comment Code						
Inspector Comment						
FS_ID:20740 DS_ID:22410 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 2" electric conduit and gate valve on WS.- abandoned old pump not removed from WS- working during field survey FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe and a 2- inch electrical conduit through the levee, invert elevation 3 feet below the crown. Service pole and standpipe at the landside (LS) toe. (C. Sakai). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 39.32)]. FS Date: 8/30/2013						

Photo 3 of 3 : UCIP_FA_2018_20740_34939.jpg



WS view: steel steps to pump platform, exposed steel pipe, and electric conduit on levee slope.

LM Start	5.24	Rating **	M	Issue No.	975
LM End	5.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.381126 °	38.381126 °
				-121.524207 °	-121.524207 °
DWR ID	DWR_RD0150_02_s_2013_975				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Depression on the waterward slope at the shoulder over an irrigation pipe.					

Photo 1 of 2 : FA_2018_RD0150_16_975_20180910_00070.jpg



View of minor slope instability on the waterside slope of the levee looking downstream during fall 2013 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

Photo 2 of 2 : FA_2018_RD0150_16_975_20180910_00071.jpg



View of a minor depression along the landward slope of the levee over a pipe penetration looking downstream.

No Photos

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Reclamation District No. 0150 Merrit Island

View of slope instability on the waterside of the levee looking towards the toe. Fall 2014

View of dense landscaping on levee slope. Fall 2018

View of firewood at levee toe and fruit tree on levee slope. Fall 2018

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	5.85	Rating **	A/W	Issue No.	51
LM End		Issue Type +	Ob	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.387241 °	°
				-121.516284 °	°
DWR ID	DWR_RD0150_02_f_2017_51				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:209 Site Designation:306-135 Repair Type: Seepage Rating: Field Date: Notes: Fall 2018 DWR Inspector: End LM was not provided.					

No Photos

LM Start	5.90	Rating **	M	Issue No.	52
LM End	5.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.387915 °	38.387915 °
				-121.516002 °	-121.516002 °
DWR ID	DWR_RD0150_02_f_2016_52				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair erosion due to runoff.					

Photo 1 of 2 : FA_2018_RD0150_16_52_20181115_00131.jpg



View of erosion due to runoff. Fall 2018

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	5.90	Rating **	M	Issue No.	52 (cont)	
LM End	5.90	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.387915 °	38.387915 °	
				-121.516002 °	-121.516002 °	
DWR ID	DWR_RD0150_02_f_2016_52					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Repair erosion due to runoff.						

Photo 2 of 2 : FA_2018_RD0150_16_52_20180910_00031.jpg



View of the erosion on the landside of the levee during spring 2017 inspection.

LM Start	6.13	Rating **	M	Issue No.	1004	
LM End	6.13	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.391099 °	38.391099 °	
				-121.514913 °	-121.514913 °	
DWR ID	22412					
Comment Code						
Inspector Comment						
FS_ID:20748 DS_ID:22412 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - slope erosion due leaky siphon breaker at CMP riser- leaky pipe and pump- service pole on LS- 2" electric conduit on WS FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe and an electrical conduit through the levee, invert elevation 4.8 feet below the crown. Slant pump on the waterside (WS) slope. Siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) shoulder. Slope erosion on the LS at the siphon breaker. (Ed Boyles). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.22)]. FS Date: 8/30/2013						

Photo 1 of 3 : UCIP_FA_2018_20748_34967.jpg



WS view: steel pipe and slant pump on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	6.13	Rating **	M	Issue No.	1004 (cont)	
LM End	6.13	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.391099 °	38.391099 °	
				-121.514913 °	-121.514913 °	
DWR ID	22412					
Comment Code						
Inspector Comment						
FS_ID:20748						
DS_ID:22412						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - slope erosion due leaky siphon breaker at CMP riser- pipe and pump- service pole on LS- 2" electric conduit on WS						
FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe and an electrical conduit through the levee, invert elevation 4.8 feet below the crown. Slant pump on the waterside (WS) slope. Siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) shoulder. Slope erosion on the LS at the siphon breaker. (Ed Boyles). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.22)].						
FS Date: 8/30/2013						

LM Start	6.13	Rating **	M	Issue No.	1004 (cont)
LM End	6.13	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_20748_34966.jpg



WS view: leaky steel pipe and slant pump on levee slope.

Photo 3 of 3 : UCIP_FA_2018_20748_34965.jpg



LS view: siphon breaker in CMP riser (left) on levee slope and concrete standpipe at levee toe (right).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	6.30	Rating **	M	Issue No.	27
LM End	6.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.393655 °	38.393655 °
				-121.514654 °	-121.514654 °
DWR ID	DWR_RD0150_02_s_2012_27				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Century plant on the landward slope.					

Photo 1 of 1 : FA_2018_RD0150_16_27_20180910_00012.jpg



Century plant was found on the landside of the levee looking upstream.
Fall 2011

LM Start	6.32	Rating **	M	Issue No.	29
LM End	6.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.393850 °	38.393850 °
				-121.514629 °	-121.514629 °
DWR ID	DWR_RD0150_02_s_2012_29				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	6.36	Rating **	U	Issue No.	31
LM End	6.36	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.394416 °	38.394416 °
				-121.514590 °	-121.514590 °
DWR ID	DWR_RD0150_02_s_2012_31				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_31_20180910_00015.jpg



Trees need to be trimmed on the landside of the levee looking upstream. Fall 2011

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	6.39	Rating **	U	Issue No.	65
LM End	6.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.394935 °	38.395931 °
				-121.514597 °	-121.514604 °
DWR ID	DWR_RD0150_02_s_2012_65				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_65_20180910_00045.jpg



View of landscaping along the landside shoulder and slope looking downstream.

LM Start	6.42	Rating **	M	Issue No.	34
LM End	6.42	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.395340 °	38.395340 °
				-121.514528 °	-121.514528 °
DWR ID	DWR_RD0150_02_s_2012_34				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_34_20180910_00017.jpg



Landscaping was found on the waterside of the levee looking upstream.
Fall 2011

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	6.48	Rating **	M	Issue No.	42
LM End	6.48	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.396235 °	38.396235 °
				-121.514547 °	-121.514547 °
DWR ID	DWR_RD0150_02_s_2012_42				
Comment Code					
ST : Stairway					
Inspector Comment					
Unpermitted stairway.					

Photo 1 of 1 : FA_2018_RD0150_16_42_20180910_00018.jpg



A stairway was found on the waterside slope of the levee looking upstream.

LM Start	6.50	Rating **	M	Issue No.	1005	
LM End	6.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.396449 °	38.396449 °	
				-121.514516 °	-121.514516 °	
DWR ID	22413					
Comment Code						
Inspector Comment						
FS_ID:50669 DS_ID:22413 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/09/2016 Per FPIIB Inspector Pavel Kazi, the CMP riser has been removed and the pipe is now exposed. Pipe still requires proper abandonment. (K. Fazel - UCIP)08/30/2013 Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope. May need proper abandonment. (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe, 10 feet below the crown. Gate valve on each end, though only one was found on the waterside (WS) in 2013. Pump on the landside (LS), 10 feet from the LS toe, not found in 2013. Riser on the WS slope has been removed as of the 2016 inspection. (C. Godfrey). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.60), referenced as invert elevation 8.5 feet below the crown]. FS Date: 11/9/2016						

Photo 1 of 3 : UCIP_FA_2018_50669_34985.jpg



WS view: an abandoned and dismantled CMP riser on WS levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	6.50	Rating **	M	Issue No.	1005 (cont)
LM End	6.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.396449°	38.396449°
				-121.514516°	-121.514516°
DWR ID	22413				
Comment Code					
Inspector Comment					
FS_ID:50669 DS_ID:22413 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/09/2016 Per FPIIB Inspector Pavel Kazi, the CMP riser has been removed and the pipe is now exposed. Pipe still requires proper abandonment. (K. Fazel - UCIP)08/30/2013 Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope. May need proper abandonment. (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe, 10 feet below the crown. Gate valve on each end, though only one was found on the waterside (WS) in 2013. Pump on the landside (LS), 10 feet from the LS toe, not found in 2013. Riser on the WS slope has been removed as of the 2016 inspection. (C. Godfrey). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.60), referenced as invert elevation 8.5 feet below the crown]. FS Date: 11/9/2016					

Photo 2 of 3 : UCIP_FA_2018_50669_34984.jpg



WS view: closer view of an abandoned and dismantled CMP riser on WS levee slope.

LM Start	6.50	Rating **	M	Issue No.	1005 (cont)
LM End	6.50	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2018_50669_34983.jpg



WS view: an abandoned and dismantled CMP riser with gate valve handle on WS levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	6.50	Rating **	U	Issue No.	55
LM End	6.50	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.396518 °	38.396518 °
				-121.514530 °	-121.514530 °
DWR ID	DWR_RD0150_02_f_2014_55				
Comment Code					
PI : Pipe					
Inspector Comment					
The pipe gate needs to be covered on the waterside toe of the levee.					

Photo 1 of 1 : FA_2018_RD0150_16_55_20180910_00037.jpg



An open pipe valve was found without a cover on the waterside toe of the levee. Fall 2014

LM Start	6.57	Rating **	M	Issue No.	1006
LM End	6.57	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.397451 °	38.397451 °
				-121.514601 °	-121.514601 °
DWR ID	22425				
Comment Code					
Inspector Comment					
FS_ID:41720 DS_ID:22425 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to clear dense vegetation on WS.- water filtration plant on LS levee toe.- Slide gate on CMP riser on WS. FIELD_STRUCT_DESC: 8-inch irrigation discharge pipe of an unknown material through the levee, 12 feet below the crown. Gate valve in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pump at the landside (LS) toe. (Joe Gomez). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/30/2013					

Photo 1 of 2 : UCIP_FA_2018_41720_34081.jpg



WS view: CMP riser with gate valve on levee slope. Dense vegetation on levee slope and stream bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	6.57	Rating **	M	Issue No.	1006 (cont)	
LM End	6.57	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.397451 °		38.397451 °
				-121.514601 °		-121.514601 °
DWR ID	22425					
Comment Code						
Inspector Comment						
FS_ID:41720 DS_ID:22425 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to clear dense vegetation on WS.- water filtration plant on LS levee toe.- Slide gate on CMP riser on WS. FIELD_STRUCT_DESC: 8-inch irrigation discharge pipe of an unknown material through the levee, 12 feet below the crown. Gate valve in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pump at the landside (LS) toe. (Joe Gomez). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/30/2013						

Photo 2 of 2 : UCIP_FA_2018_41720_34080.jpg



LS view: concrete vault, pipe, and pump in water filtration plant.

LM Start	6.57	Rating **	U	Issue No.	64
LM End	6.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.397523 °	38.398000 °
				-121.514658 °	-121.514731 °
DWR ID	DWR_RD0150_02_s_2012_64				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_64_20180910_00044.jpg



Dense landscaping providing a screen for a residence on landside of levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	6.65	Rating **	M	Issue No.	43
LM End	6.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.398600 °	38.399042 °
				-121.514793 °	-121.514841 °
DWR ID	DWR_RD0150_02_s_2012_43				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping and century plant on landside of the levee.					

Photo 1 of 1 : FA_2018_RD0150_16_43_20180910_00019.jpg



Century plants were found on the landside of the levee looking upstream.

LM Start	6.69	Rating **	M	Issue No.	1007
LM End	6.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.399167 °	38.399167 °
				-121.514793 °	-121.514793 °
DWR ID	22426				
Comment Code					
Inspector Comment					
FS_ID:41646 DS_ID:22426 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - abandoned very old gate valve also found on WS. Rest of pipe should be evaluated due to its age. FIELD_STRUCT_DESC: 9-inch steel irrigation discharge pipe through the levee, invert elevation 9.7 feet below the crown. Gate valve and pump house on the landside (LS). (Retention of an irrigation pumping plant with a centrifugal pump on the LS levee slope with a 9-inch pipe through the levee authorized under Automatic Board Order (ABO) issued as Permit No. 8551, 1973 - Albert Souza). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.79)]. FS Date: 8/30/2013					

Photo 1 of 3 : UCIP_FA_2018_41646_34102.jpg



WS view: inlet steel pipe on stream bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	6.69	Rating **	M	Issue No.	1007 (cont)
LM End	6.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.399167°	38.399167°
				-121.514793°	-121.514793°
DWR ID	22426				
Comment Code					
Inspector Comment					
FS_ID:41646					
DS_ID:22426					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - abandoned very old gate valve also found on WS.					
Rest of pipe should be evaluated due to its age.					
FIELD_STRUCT_DESC: 9-inch steel irrigation discharge pipe through the levee, invert elevation 9.7 feet below the crown. Gate valve and pump house on the landside (LS). (Retention of an irrigation pumping plant with a centrifugal pump on the LS levee slope with a 9-inch pipe through the levee authorized under Automatic Board Order (ABO) issued as Permit No. 8551, 1973 - Albert Souza). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.79)].					
FS Date: 8/30/2013					

LM Start	6.69	Rating **	M	Issue No.	1007 (cont)
LM End	6.69	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_41646_34101.jpg



WS view: An abandoned old gate valve on inlet steel pipe on stream bank.

Photo 3 of 3 : UCIP_FA_2018_41646_34100.jpg



LS view: concrete masonry distribution box (top), steel pipe, gate valve, air vent, and pump (left) on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	6.73	Rating **	M	Issue No.	111
LM End	6.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.399838 °	38.399838 °
				-121.514898 °	-121.514898 °
DWR ID	DWR_RD0150_02_s_2018_111				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Possible rodent hole or sinkhole forming on waterside shoulder needs to be repaired.					

Photo 1 of 1 : FA_2018_RD0150_16_111_20180910_00063.jpg



View of possible animal hole on waterside looking east. Spring 2018

LM Start	6.76	Rating **	U	Issue No.	60
LM End	6.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.400284 °	38.402613 °
				-121.515019 °	-121.515863 °
DWR ID	DWR_RD0150_02_s_2012_60				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_60_20180910_00042.jpg



View of dense landscaping providing a screen for a residence on the landside of levee.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	7.00	Rating **	U	Issue No.	1008	
LM End	7.00	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.403513 °	38.403513 °	
				-121.516162 °	-121.516162 °	
DWR ID	22429					
Comment Code						
Inspector Comment						
FS_ID:53333 DS_ID:22429 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 6/5/2018 Pump in operation at time of inspection. Pipe on WS has significant leak; spilling onto a pile of brush so erosion appears limited, if at all. LS does not appear to have any pipe leaks or levee erosion. Pipe is approximately 85 years and should be internally inspected, and possibly replaced completely, and crossing remains Urgent (DWR UCIP - D. Sanoski). FIELD_STRUCT_DESC: 8-inch concrete encased steel irrigation discharge pipe through the levee, 10 feet below the crown. Pump on a concrete slab and a slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe through the levee section is encased in reinforced concrete. Concrete standpipe at the landside (LS) toe. (A. Monice). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 41.10), referenced as invert elevation 8.2 feet below the crown]. FS Date: 6/5/2018 1:46:00 PM						

LM Start	7.00	Rating **	U	Issue No.	1008 (cont)
LM End	7.00	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_53333_34162.jpg



WS view: CMP riser with slide gate and pump (right) on levee slope.

Photo 2 of 3 : UCIP_FA_2018_53333_34161.jpg



WS view: steel intake pipe and pump on levee slope. Dense vegetation on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	7.00	Rating **	U	Issue No.	1008 (cont)	
LM End	7.00	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.403513 °	38.403513 °	
				-121.516162 °	-121.516162 °	
DWR ID	22429					
Comment Code						
Inspector Comment						
FS_ID:53333 DS_ID:22429 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 6/5/2018 Pump in operation at time of inspection. Pipe on WS has significant leak; spilling onto a pile of brush so erosion appears limited, if at all. LS does not appear to have any pipe leaks or levee erosion. Pipe is approximately 85 years and should be internally inspected, and possibly replaced completely, and crossing remains Urgent (DWR UCIP - D. Sanoski). FIELD_STRUCT_DESC: 8-inch concrete encased steel irrigation discharge pipe through the levee, 10 feet below the crown. Pump on a concrete slab and a slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe through the levee section is encased in reinforced concrete. Concrete standpipe at the landside (LS) toe. (A. Monice). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 41.10), referenced as invert elevation 8.2 feet below the crown]. FS Date: 6/5/2018 1:46:00 PM						

Photo 3 of 3 : UCIP_FA_2018_53333_34160.jpg



WS view: pump on levee slope. Dense vegetation on levee slope.

LM Start	7.01	Rating **	U	Issue No.	58
LM End	7.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403631 °	38.403631 °
				-121.516299 °	-121.516299 °
DWR ID	DWR_RD0150_02_s_2012_58				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_58_20180910_00039.jpg



View of dense landscaping on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	7.06	Rating **	M	Issue No.	71
LM End	7.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.404338 °	38.404338 °
				-121.516625 °	-121.516625 °
DWR ID	DWR_RD0150_02_s_2018_71				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	7.17	Rating **	A/W	Issue No.	53
LM End	7.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.405933 °	38.406722 °
				-121.517197 °	-121.517617 °
DWR ID	DWR_RD0150_02_f _ 2017_53				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 311 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:289					
Site Designation:LMA-115					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Crown is a paved road. 2 scarps 6 ft deep and about 15 ft long each within site and 6 ft from crown, otherwise erosion was pretty small. Rip rap on 3/4 of slope here, but not full coverage. Area of concern because deeper scarps only extended a short distance.					



View of waterside slope with some revetment. Fall 2018

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

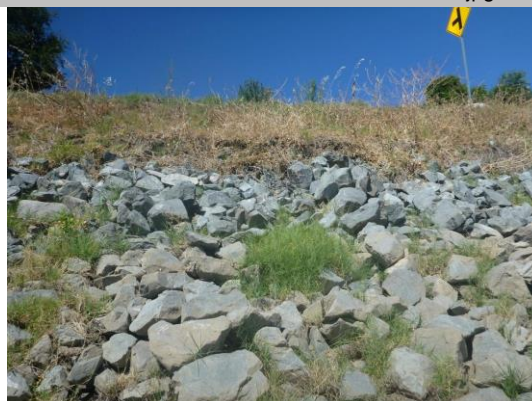
Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	7.17	Rating **	A/W	Issue No.	53 (cont)
LM End	7.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.405933 °	38.406722 °
				-121.517197 °	-121.517617 °
DWR ID	DWR_RD0150_02_f_2017_53				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 311 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:289					
Site Designation:LMA-115					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Crown is a paved road. 2 scarps 6 ft deep and about 15 ft long each within site and 6 ft from crown, otherwise erosion was pretty small. Rip rap on 3/4 of slope here, but not full coverage. Area of concern because deeper scarps only extended a short distance.					

Photo 2 of 4 : LEVAL_FA_2018_289_2163.jpg



LM Start	7.17	Rating **	A/W	Issue No.	53 (cont)
LM End	7.23	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : LEVAL_FA_2018_289_2165.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	7.17	Rating **	A/W	Issue No.	53 (cont)	
LM End	7.23	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.405933 °	38.406722 °	
				-121.517197 °	-121.517617 °	
DWR ID	DWR_RD0150_02_f_2017_53					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:The flood damage consists of a waterside erosion approximately 311 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.						
Site ID No:289						
Site Designation:LMA-115						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/17/2017						
Notes: Crown is a paved road. 2 scarps 6 ft deep and about 15 ft long each within site and 6 ft from crown, otherwise erosion was pretty small. Rip rap on 3/4 of slope here, but not full coverage. Area of concern because deeper scarps only extended a short distance.						

Photo 4 of 4 : LEVAL_FA_2018_289_2168.jpg



LM Start	7.22	Rating **	M	Issue No.	32
LM End	7.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.406454 °	38.406454 °
				-121.517732 °	-121.517732 °
DWR ID	DWR_RD0150_02_s_2012_32				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/09/2018 11/09/2018	Luz Dial

LM Start	7.25	Rating **	M	Issue No.	62
LM End	7.30	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.406920 °	38.407604 °	
			-121.517945 °	-121.518332 °	
DWR ID	DWR_RD0150_02_s _ 2018_62				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	7.77	Rating **	C	Issue No.	41
LM End	7.77	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.413563 °	38.413563 °	
			-121.522593 °	-121.522593 °	
DWR ID	DWR_RD0150_02_s _ 2013_41				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	7.79	Rating **	M	Issue No.	56
LM End	7.79	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.413705 °	38.413705 °	
			-121.522806 °	-121.522806 °	
DWR ID	DWR_RD0150_02_s _ 2012_56				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_16_56_20180910_00038.jpg



Landscaping on landside of levee

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

Waterway			Bank	Unit Miles
Unit No. 03 Elk Slough			Left	9.41
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	4/26/2018 - 4/27/2018		11/9/2018 - 11/9/2018	
DWR Inspector	Dave Torres		Luz Dial	
Accompanied By	David Julian DWR		Michael Moncrief MBK	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	0.01	Rating **	A/W	Issue No.	22
LM End	7.80	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.332735 °	38.406923 °
				-121.583625 °	-121.542640 °
DWR ID	DWR_RD0150_03_f_2018_22				
Comment Code					
Inspector Comment					
2017 Site ID: ELK 0.2 L					
Status: Eroding					
2017 Field Notes: Fresh erosion; site continues to worsen.					
Site History: 1997 - Most of lower Elk Slough contains high near vertical banks, with erosion into the levee slope. Channel almost appears incised. 2002 - Sites where the levee slope is near vertical and severely eroding. It could fail catastrophically. 2004 - Looks bad in terms of vertical slopes and fallen trees. 2005 - Banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2006 - Both banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2010 - The entire reach is in poor condition, with severely eroding near vertical slopes, needs a regional repair. 2011 - Channel banks are still oversteepened with erosion continuing. 2012 - New cracks and animal holes observed.					

No Photos

LM Start	0.11	Rating **	C	Issue No.	43
LM End	0.20	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.334220 °	38.335449 °
				-121.583381 °	-121.582863 °
DWR ID	DWR_RD0150_03_s_2018_43				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	0.11	Rating **	M	Issue No.	936
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.334233 °	38.334233 °
				-121.583414 °	-121.583414 °
DWR ID	DWR_RD0150_03_s_2012_936				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.39	Rating **	M	Issue No.	951	
LM End	0.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.337928 °	38.337928 °	
				-121.581496 °	-121.581496 °	
DWR ID	22453					
Comment Code						
Inspector Comment						
FS_ID:42694 DS_ID:22453 EP_NO: 13612 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned. Proper abandone needs. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel gravity irrigation pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Runyon). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/20/2013						

Photo 1 of 3 : UCIP_FA_2018_42694_32005.jpg



WS view: pipe and pump on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	0.39	Rating **	M	Issue No.	951 (cont)	
LM End	0.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.337928°	38.337928°	
				-121.581496°	-121.581496°	
DWR ID	22453					
Comment Code						
Inspector Comment						
FS_ID:42694 DS_ID:22453 EP_NO: 13612 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned. Proper abandone needs. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel gravity irrigation pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Runyon). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/20/2013						

Photo 2 of 3 : UCIP_FA_2018_42694_32004.jpg



WS view: safety valve on steel pipe.

LM Start	0.39	Rating **	M	Issue No.	951 (cont)
LM End	0.39	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2018_42694_32003.jpg



WS view: abandoned pipe, gate valve, and pump on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

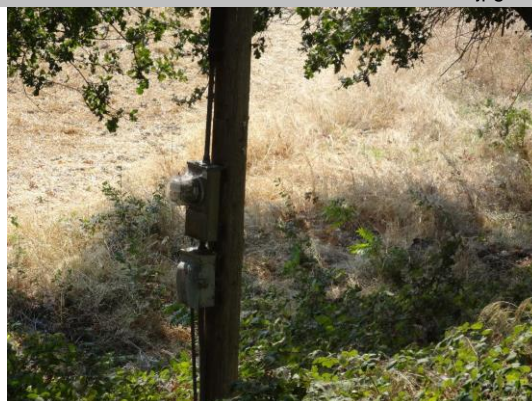
Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	0.40	Rating **	M	Issue No.	952
LM End	0.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.338131°	38.338131°
				-121.581434°	-121.581434°
DWR ID	22454				
Comment Code					
Inspector Comment					
FS_ID:42693 DS_ID:22454 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems to be abandoned. Service pole on LS slope. 1" conduit through levee.May need proper abandonment. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Gentner). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/20/2013					

Photo 1 of 3 : UCIP_FA_2018_42693_31979.jpg



LS view: service pole on levee slope.

LM Start	0.40	Rating **	M	Issue No.	952 (cont)
LM End	0.40	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_42693_31978.jpg



LS view: no pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	0.40	Rating **	M	Issue No.	952 (cont)	
LM End	0.40	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.338131 °	38.338131 °	
				-121.581434 °	-121.581434 °	
DWR ID	22454					
Comment Code						
Inspector Comment						
FS_ID:42693 DS_ID:22454 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems to be abandoned. Service pole on LS slope. 1" conduit through levee.May need proper abandonment. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Gentner). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/20/2013						

Photo 3 of 3 : UCIP_FA_2018_42693_31977.jpg



WS view: pipe and pump on levee slope.

LM Start	0.81	Rating **	C	Issue No.	44
LM End	0.83	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.343925 °	38.344189 °
				-121.580297 °	-121.580231 °
DWR ID	DWR_RD0150_03_s_2018_44				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	0.92	Rating **	M	Issue No.	5
LM End	0.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.345493 °	38.345493 °
				-121.579682 °	-121.579682 °
DWR ID	DWR_RD0150_03_s_2012_5				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Maintain visibility of levee slopes.					

No Photos

LM Start	1.35	Rating **	M	Issue No.	953	
LM End	1.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.347489 °	38.347489 °	
				-121.573302 °	-121.573302 °	
DWR ID	22433					
Comment Code						
Inspector Comment						
FS_ID:19112 DS_ID:22433 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No handrail on wooden walkway. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, invert elevation 8 feet below the crown. Pump in a pump house on the waterside (WS) slope. Service pole and steel distribution box on the landside (LS) slope. (A. Pylman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 1.39)]. FS Date: 8/20/2013						

Photo 1 of 3 : UCIP_FA_2018_19112_32044.jpg



WS view: pipe on levee slope and pump house in channel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	1.35	Rating **	M	Issue No.	953 (cont)	
LM End	1.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.347489 °	38.347489 °	
				-121.573302 °	-121.573302 °	
DWR ID	22433					
Comment Code						
Inspector Comment						
FS_ID:19112 DS_ID:22433 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No handrail on wooden walkway. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, invert elevation 8 feet below the crown. Pump in a pump house on the waterside (WS) slope. Service pole and steel distribution box on the landside (LS) slope. (A. Pylman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 1.39)]. FS Date: 8/20/2013						

Photo 2 of 3 : UCIP_FA_2018_19112_32043.jpg



WS view: concrete headwall and exposed pipe on levee slope.

LM Start	1.35	Rating **	M	Issue No.	953 (cont)
LM End	1.35	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2018_19112_32042.jpg



WS view: pipe, wooden walkway and pump house in channel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	1.42	Rating **	C	Issue No.	70
LM End	1.42	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.348132 °	38.348132 °
				-121.572368 °	-121.572368 °
DWR ID	DWR_RD0150_03_f_2016_70				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

LM Start	1.42	Rating **	C	Issue No.	33
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.348142 °	38.348411 °
				-121.572319 °	-121.572339 °
DWR ID	DWR_RD0150_03_f_2017_33				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Instability, cracking, and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 98 feet long. See attached pages for photos.					
Site ID No:293					
Site Designation:LMA-119					
Repair Type: Erosion					
Rating:Critical					
Field Date:7/19/2017					
Notes: Site is serious because lower 2/3 of slope is near vertical and site is located on a bend. Fall 2018 DWR Inspector: LMA repaired slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	1.54	Rating **	C	Issue No.	77
LM End	1.54	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.349808 °	38.349808 °	
			-121.572641 °	-121.572641 °	
DWR ID	DWR_RD0150_03_s_2018_77				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	1.55	Rating **	A/W	Issue No.	34
LM End		Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.349949 °		
			-121.572659 °		
DWR ID	DWR_RD0150_03_f_2017_34				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:211					
Site Designation:386-93					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	1.78	Rating **	M	Issue No.	954
LM End	1.78	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.353180 °	38.353180 °
				-121.572907 °	-121.572907 °
DWR ID	22434				
Comment Code					
Inspector Comment					
FS_ID:19137 DS_ID:22434 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Small depression on WS slope due to leak from pump. Pipe opens on LS ditch/depression. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 3.4 feet below the crown. Pump, gate valve, and service pole on the waterside (WS) slope. (W. Bogle). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 1.82), 7-inch pipe referenced]. FS Date: 8/20/2013					

LM Start	1.78	Rating **	M	Issue No.	954 (cont)
LM End	1.78	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_19137_32108.jpg



WS view: exposed pipe and power pole on levee slope.

Photo 2 of 3 : UCIP_FA_2018_19137_32107.jpg



WS view: exposed pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

Photo 3 of 3 : UCIP_FA_2018_32106.jpg



WS view: pipe and slant pump on levee slope.

Photo 1 of 1 : FA_2018_RD0150_17_50_20180910_00039.jpg



Steps were dug next to the pipe, and also erosion was found near the vicinity of the pipe on the waterside slope of the levee looking upstream.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	1.83	Rating **	M	Issue No.	85
LM End	1.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.353761 °	38.353761 °
				-121.572390 °	-121.572390 °
DWR ID	DWR_RD0150_03_s_2016_85				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_85_20180910_00080.jpg



View of broken tree trunk on the waterside slope of the levee.

LM Start	2.29	Rating **	A/W	Issue No.	37
LM End	2.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.354103 °	38.354211 °
				-121.564850 °	-121.564631 °
DWR ID	DWR_RD0150_03_f_2017_37				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Instability, cracking, and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 75 feet long. See attached pages for photos.					
Site ID No:294					
Site Designation:LMA-120					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/19/2017					
Notes: Area of concern because erosion is not too far into the levee prism and looks similar to the rest of the levee outside of the site.					
Crown is a paved road.					

Photo 1 of 4 : FA_2018_RD0150_17_37_20181115_00187.jpg



View of slope damage near fallen tree. Fall 2018

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	2.29	Rating **	A/W	Issue No.	37 (cont)
LM End	2.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.354103 °	38.354211 °
				-121.564850 °	-121.564631 °
DWR ID	DWR_RD0150_03_f_2017_37				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Instability, cracking, and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 75 feet long. See attached pages for photos.

Site ID No: 294

Site Designation: LMA-120

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/19/2017

Notes: Area of concern because erosion is not too far into the levee prism and looks similar to the rest of the levee outside of the site. Crown is a paved road.

LM Start	2.29	Rating **	A/W	Issue No.	37 (cont)
LM End	2.30	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : LEVAL_FA_2018_294_2272.jpg



Photo 3 of 4 : LEVAL_FA_2018_294_2275.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	2.29	Rating **	A/W	Issue No.	37 (cont)	
LM End	2.30	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.354103°	38.354211°	
				-121.564850°	-121.564631°	
DWR ID	DWR_RD0150_03_f_2017_37					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Instability, cracking, and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 75 feet long. See attached pages for photos.						
Site ID No:294						
Site Designation:LMA-120						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/19/2017						
Notes: Area of concern because erosion is not too far into the levee prism and looks similar to the rest of the levee outside of the site.						
Crown is a paved road.						

Photo 4 of 4 : LEVAL_FA_2018_294_2277.jpg



LM Start	2.31	Rating **	C	Issue No.	78
LM End	2.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.354286 °	38.354286 °
				-121.564494 °	-121.564494 °
DWR ID	DWR_RD0150_03_s_2012_78				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
New tree was planted on the landside slope. Remove trees smaller than 4-inches in diameter at chest height.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	2.51	Rating **	C	Issue No.	38
LM End	2.52	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.356231 °	38.356422 °	
			-121.561917 °	-121.561783 °	
DWR ID	DWR_RD0150_03_f_2017_38				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 80 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos.</p> <p>Site ID No: 296</p> <p>Site Designation: LMA-122</p> <p>Repair Type: Stability</p> <p>Rating: Critical</p> <p>Field Date: 7/19/2017</p> <p>Notes: Crown is a paved road. Serious because erosion cuts into levee prism significantly (lower 2/3 - 1/2 is near vertical) and longitudinal cracking observed above erosion, but damage does not extend into crown. Fall 2018 DWR Inspector: LMA repaired erosion and cracking damage to slope.</p>					

No Photos

LM Start	2.52	Rating **	C	Issue No.	54
LM End	2.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.356398 °	38.356398 °	
			-121.561834 °	-121.561834 °	
DWR ID	DWR_RD0150_03_s_2017_54				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
LMA repaired erosion damage.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

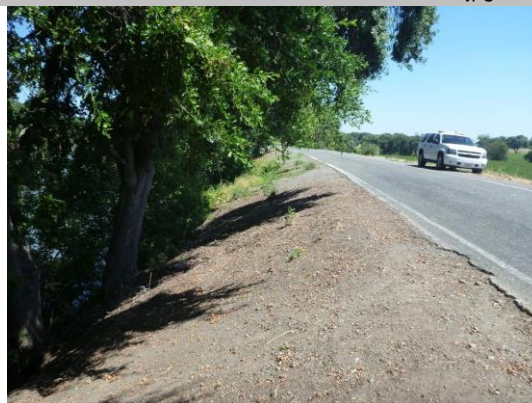
LM Start	2.72	Rating **	A/W	Issue No.	42
LM End	2.73	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.359256 °	38.359461 °
				-121.561239 °	-121.561275 °
DWR ID	DWR_RD0150_03_f _ 2017_42				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 75 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos					
Site ID No:297					
Site Designation:LMA-123					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Crown is a paved road. 20 ft of cracking observed maximum within the site, but lower 1/4 of slope is near vertical. Lower priority because it is not too much worse than the surrounding levees.					

Photo 1 of 3 : LEVAL_FA_2018_297_1928.jpg



LM Start	2.72	Rating **	A/W	Issue No.	42 (cont)
LM End	2.73	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : LEVAL_FA_2018_297_1931.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

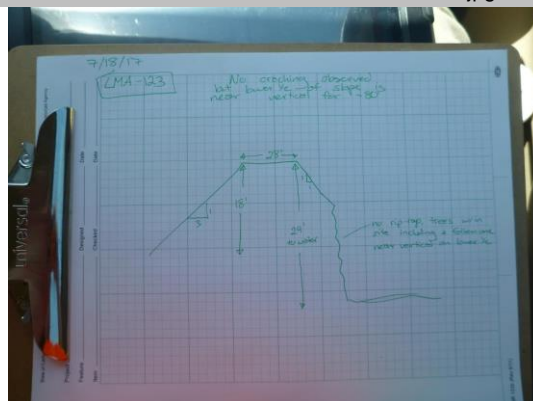
Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merritt Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	2.72	Rating **	A/W	Issue No.	42 (cont)
LM End	2.73	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.359256°	38.359461°	
			-121.561239°	-121.561275°	
DWR ID	DWR_RD0150_03_f_2017_42				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 75 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos</p> <p>Site ID No: 297</p> <p>Site Designation: LMA-123</p> <p>Repair Type: Stability</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/18/2017</p> <p>Notes: Crown is a paved road. 20 ft of cracking observed maximum within the site, but lower 1/4 of slope is near vertical. Lower priority because it is not too much worse than the surrounding levees.</p>					

Photo 3 of 3 : LEVAL_FA_2018_297_1933.jpg



LM Start	2.74	Rating **	A/W	Issue No.	45
LM End	2.76	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.359594°	38.359808°	
			-121.561308°	-121.561369°	
DWR ID	DWR_RD0150_03_f_2017_45				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 80 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos.</p> <p>Site ID No: 298</p> <p>Site Designation: LMA-124</p> <p>Repair Type: Stability</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/18/2017</p> <p>Notes: No cracking observed, but there is runoff erosion along the entire WS slope here. Crown is a paved road. Area of concern because erosion was caused by runoff and was less severe than other sites along Elk Slough.</p>					

Photo 1 of 3 : LEVAL_FA_2018_298_1924.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

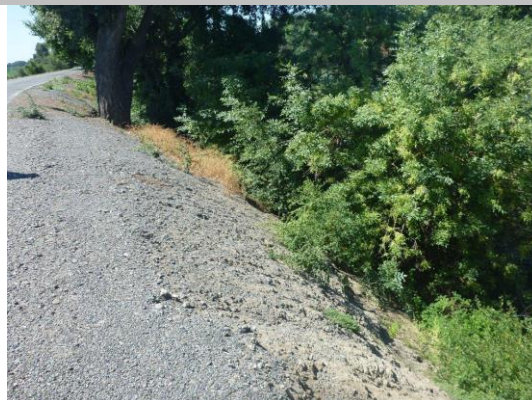
LM Start	2.74	Rating **	A/W	Issue No.	45 (cont)
LM End	2.76	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.359594 °	38.359808 °
				-121.561308 °	-121.561369 °
DWR ID	DWR_RD0150_03_f_2017_45				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 80 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos.					
Site ID No:298					
Site Designation:LMA-124					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: No cracking observed, but there is runoff erosion along the entire WS slope here. Crown is a paved road. Area of concern because erosion was caused by runoff and was less severe than other sites along Elk Slough.					

Photo 2 of 3 : LEVAL_FA_2018_298_1925.jpg



LM Start	2.74	Rating **	A/W	Issue No.	45 (cont)
LM End	2.76	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : LEVAL_FA_2018_298_1926.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	2.75	Rating **	A/W	Issue No.	62
LM End	2.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.359693°	38.359693°
				-121.561354°	-121.561354°
DWR ID	DWR_RD0150_03_s_2017_62				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Run-off due to rain.					

Photo 1 of 1 : FA_2018_RD0150_17_62_20180910_00054.jpg



View of slope instability on the waterside slope of the levee looking downstream. Spring 2017

LM Start	2.80	Rating **	A/W	Issue No.	53
LM End	2.81	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.360367 °	38.360544 °
				-121.561592 °	-121.561683 °
DWR ID	DWR_RD0150_03_f _ 2017_53				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 70 feet long and 12 feet down from the levee crest. See attached pages for photos					
Site ID No:299					
Site Designation:LMA-125					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Crown is a paved road. Cracking on upper 1/3 of slope. Lower 1/2 of slope is near vertical. Area of concern because erosion is less severe than other sites along Elk Slough.					

Photo 1 of 3 : LEVAL_FA_2018_299_2105.jpg



* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

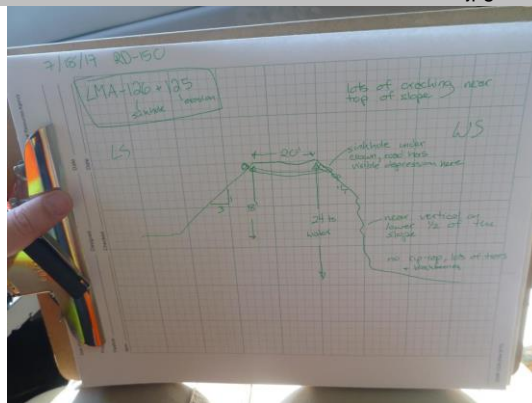
LM Start	2.80	Rating **	A/W	Issue No.	53 (cont)
LM End	2.81	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.360367°	38.360544°
				-121.561592°	-121.561683°
DWR ID	DWR_RD0150_03_f_2017_53				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 70 feet long and 12 feet down from the levee crest. See attached pages for photos					
Site ID No:299					
Site Designation:LMA-125					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Crown is a paved road. Cracking on upper 1/3 of slope. Lower 1/2 of slope is near vertical. Area of concern because erosion is less severe than other sites along Elk Slough.					

LM Start	2.80	Rating **	A/W	Issue No.	53 (cont)
LM End	2.81	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : LEVAL_FA_2018_299_2106.jpg



Photo 3 of 3 : LEVAL_FA_2018_299_2108.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	2.80	Rating **	C	Issue No.	79
LM End	2.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.360372°	38.360397°
				-121.561594°	-121.561606°
DWR ID	DWR_RD0150_03_f_2017_79				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 7 February 2017, a sinkhole 3 feet wide by 3 feet deep was observed at the levee crest. See attached pages for photos.					
Site ID No:300					
Site Designation:LMA-126					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Sinkhole os present on both sides of crown and crown has a dip of about 1 ft on the WS half. Crown is a paved road here. Sink hole appears to be caused by a rodent hole so it was rated lower priority because it is a general maintenance issue. See LMA-125 for cross section.					

No Photos

LM Start	2.80	Rating **	A/W	Issue No.	35
LM End	2.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.360432°	38.360432°
				-121.561644°	-121.561644°
DWR ID	DWR_RD0150_03_s_2013_35				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : FA_2018_RD0150_17_35_20181115_00190.jpg



View of erosion at top of slope. Fall 2018

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0150 Merrit Island

View of erosion on the waterside of the levee during spring 2017 inspection.

No Photos

View of tree stumps and downed stree on the waterward slope.

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Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	2.95	Rating **	M	Issue No.	86
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.362431 °	38.362431 °
				-121.562265 °	-121.562265 °
DWR ID	DWR_RD0150_03_s _ 2018_86				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove downed tree on waterside slope.					

A photograph showing a paved road with a white dashed line on the right side. The road is bordered by dense green vegetation, including bushes and trees. A date stamp '04-27-2009' is visible in the bottom right corner.

Downed tree waterside looking southwest. Spring 2018

LM Start	3.28	Rating **	M	Issue No.	113
LM End	3.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.362992 °	38.362992 °
				-121.557275 °	-121.557275 °
DWR ID	DWR_RD0150_03_f _ 2013_113				
Comment Code					
PO : Pole					
Inspector Comment					
Unused pole on the levee slope does not appear to be permitted by CVFPB and should be removed.					

View of unused pole on the levee slope. Fall 2018

LM Start	3.31	Rating **	M	Issue No.	40
LM End	3.31	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363008 °	38.363008 °
				-121.556751 °	-121.556751 °
DWR ID	DWR_RD0150_03_s_2013_40				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

View of erosion on the waterside of the levee during spring 2015 inspection.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	3.31	Rating **	M	Issue No.	40 (cont)	
LM End	3.31	Issue Type +	Ob	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.363008 °		38.363008 °
				-121.556751 °		-121.556751 °
DWR ID	DWR_RD0150_03_s_2013_40					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						

Photo 2 of 2 : FA_2018_RD0150_17_40_20180910_00029.jpg



View of erosion on the waterside of the levee looking upstream during fall 2014 inspection.

LM Start	3.34	Rating **	M	Issue No.	27
LM End	3.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.363147 °	38.363147 °
				-121.556190 °	-121.556190 °
DWR ID	DWR_RD0150_03_s_2012_27				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on the waterside toe of the levee.					

Photo 1 of 1 : FA_2018_RD0150_17_27_20180910_00009.jpg



View of downed tree on the waterside slope looking upstream.

LM Start	3.36	Rating **	M	Issue No.	102
LM End	3.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363254°	38.363254°
				-121.555889°	-121.555889°
DWR ID	DWR_RD0150_03_s_2018_102				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	3.37	Rating **	A/W	Issue No.	76
LM End	3.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Riprap Revetments			38.363380 °	38.364325 °
				-121.555715 °	-121.555330 °
DWR ID	DWR_RD0150_03_s_2017_76				
Comment Code					
Inspector Comment					
LMA or the pipe owner has placed new riprap on the waterside slope.					

Photo 1 of 1 : FA_2018_RD0150_17_76_20180910_00067.jpg



View of the new riprap on the waterside slope of the levee looking downstream. Spring 2017

LM Start	3.39	Rating **	U	Issue No.	955	
LM End	3.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.363520 °	38.363520 °	
				-121.555571 °	-121.555571 °	
DWR ID	22439					
Comment Code						
Inspector Comment						
FS_ID:53334 DS_ID:22439 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 06/05/2018 Same as last inspection; LS erosion looks the same if not slightly worse, so the crossing remains Urgent (DWR UCIP - D. Sanoski)03/30/2017 Riprap laid around pipe on WS slope. Source of erosion has not been addressed, nor has LS toe been repaired. Update and photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Sprint 2017 Inspections. (K. Fazel - UCIP) 11/10/2016 Erosion at LS toe has progressed since last inspection and is now severe. Photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Fall 2016 Inspections. Crossing has been upgraded from Non-Urgent to Urgent. (K. Fazel - UCIP)08/20/2013 Leaky concrete standpipe on landside levee toe creating some erosion.- pump was working at the time of inspection. (P. Amatya - DWR) FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, invert elevation 3.7 feet below the crown. Service pole on the waterside (WS) slope. Pump on a piling structure in the stream. Concrete standpipe at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 3.45)]. FS Date: 6/5/2018 3:29:00 PM						

Photo 1 of 3 : UCIP_FA_2018_53334_35013.jpg



WS view: exposed pipe, walkway, service pole on levee slope and pump support in channel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

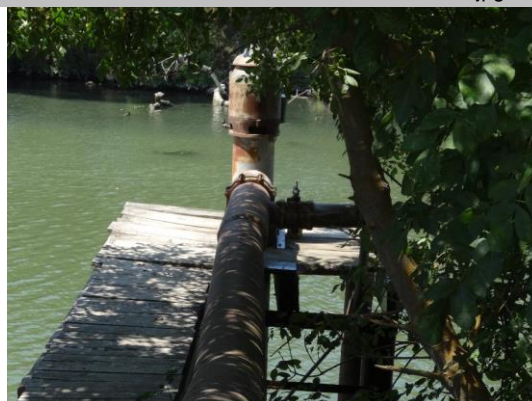
Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	3.39	Rating **	U	Issue No.	955 (cont)	
LM End	3.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.363520 °	38.363520 °	
				-121.555571 °	-121.555571 °	
DWR ID	22439					
Comment Code						
Inspector Comment						
FS_ID:53334 DS_ID:22439 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 06/05/2018 Same as last inspection; LS erosion looks the same if not slightly worse, so the crossing remains Urgent (DWR UCIP - D. Sanoski)03/30/2017 Riprap laid around pipe on WS slope. Source of erosion has not been addressed, nor has LS toe been repaired. Update and photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Sprint 2017 Inspections. (K. Fazel - UCIP) 11/10/2016 Erosion at LS toe has progressed since last inspection and is now severe. Photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Fall 2016 Inspections. Crossing has been upgraded from Non-Urgent to Urgent. (K. Fazel - UCIP)08/20/2013 Leaky concrete standpipe on landside levee toe creating some erosion.- pump was working at the time of inspection. (P. Amatya - DWR) FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, invert elevation 3.7 feet below the crown. Service pole on the waterside (WS) slope. Pump on a piling structure in the stream. Concrete standpipe at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 3.45)]. FS Date: 6/5/2018 3:29:00 PM						

LM Start	3.39	Rating **	U	Issue No.	955 (cont)
LM End	3.39	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_53334_35012.jpg



WS view: steel pipe & pump, walkway, pump support in the channel.

Photo 3 of 3 : UCIP_FA_2018_53334_35011.jpg



LS view: exposed pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	3.39	Rating **	U	Issue No.	115
LM End	3.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363540 °	38.363540 °
				-121.555554 °	-121.555554 °
DWR ID	DWR_RD0150_03_f_2013_115				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion (ditch) was found on the landside toe of the levee.					

LM Start	3.39	Rating **	U	Issue No.	115 (cont)
LM End	3.39	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : FA_2018_RD0150_17_115_20180910_00111.jpg



View of the ditch on the landside toe of the levee. Fall 2016

Photo 2 of 3 : FA_2018_RD0150_17_115_20180910_00112.jpg



View of the ditch on the landside toe of the levee during fall 2015 inspection.

LM Start	3.39	Rating **	U	Issue No.	115 (cont)
LM End	3.39	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2018_RD0150_17_115_20180910_00113.jpg



A drainage ditch with depth of 4 feet and width of 15 feet was found on the landside toe of the levee. The picture was taken from the landside slope looking upstream during the fall 2013 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	3.44	Rating **	C	Issue No.	47
LM End	3.48	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.364251 °	38.364772 °
				-121.555321 °	-121.555343 °
DWR ID	DWR_RD0150_03_s_2012_47				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	3.45	Rating **	A/W	Issue No.	91
LM End	3.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.364450 °	38.364567 °
				-121.555331 °	-121.555333 °
DWR ID	DWR_RD0150_03_f_2017_91				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 January 2017 and 7 February 2017, waterside instability and erosion were observed on the east (left) bank of Elk Slough. The site is approximately 43 feet long and 11 feet down from the levee crest. See attached pages for photos.					
Site ID No:302					
Site Designation:LMA-128					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Erosion on lower 2/3 of slope. Crown is a paved road. Area of concern because erosion was not as severe and there was lots of vegetation on the lower slope indicating damage may be older. WS slope has been rocked just downstream of this site.					

Photo 1 of 3 : LEVAL_FA_2018_302_2086.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	3.45	Rating **	A/W	Issue No.	91 (cont)	
LM End	3.46	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.364450 °		38.364567 °
				-121.555331 °		-121.555333 °
DWR ID	DWR_RD0150_03_f_2017_91					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:On 11 January 2017 and 7 February 2017, waterside instability and erosion were observed on the east (left) bank of Elk Slough. The site is approximately 43 feet long and 11 feet down from the levee crest. See attached pages for photos.						
Site ID No:302						
Site Designation:LMA-128						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: Erosion on lower 2/3 of slope. Crown is a paved road. Area of concern because erosion was not as severe and there was lots of vegetation on the lower slope indicating damage may be older. WS slope has been rocked just downstream of this site.						

Photo 2 of 3 : LEVAL_FA_2018_302_2088.jpg



LM Start	3.45	Rating **	A/W	Issue No.	91 (cont)
LM End	3.46	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : LEVAL_FA_2018_302_2089.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	3.66	Rating **	M	Issue No.	956
LM End	3.66	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.367213 °	38.367213 °
				-121.555273 °	-121.555273 °
DWR ID	22440				
Comment Code					
Inspector Comment					
FS_ID:50202 DS_ID:22440 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/07/2016: Unable to locate evidence of major depression of WS slope. Only slight depression on WS slope above pump. Though this is an up-and-over pipe, no positive closure device found. Inlet in LS standpipe is capped with a board. If no longer in use, needs to be abandoned properly. Siphon breaker/vent on WS needs a cover. Wave-wash run-up along river bank characteristic of much of Elk Slough. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)08/20/2013:Levee damage.Gate valve on WS not found. (P. Amatya - DWR) FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 5.9 feet below the crown. Slant pump on the waterside (WS) slope. Vent/siphon breaker at the apex of the pipe on the WS. Concrete platform lies next to the pump on the WS. Concrete standpipe and service pole with meter at the landside (LS) toe. Property owner is Ken Pylman at (916) 775-1066. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 3.73)]. FS Date: 7/7/2016					

LM Start	3.66	Rating **	M	Issue No.	956 (cont)
LM End	3.66	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_50202_35018.jpg



WS view: steel pipe and pump on levee slope.

Photo 2 of 3 : UCIP_FA_2018_50202_35021.jpg



WS view: steel pipe with safety valve (marked) on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	3.66	Rating **	M	Issue No.	956 (cont)	
LM End	3.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.367213 °	38.367213 °	
				-121.555273 °	-121.555273 °	
DWR ID	22440					
Comment Code						
Inspector Comment						
FS_ID:50202						
DS_ID:22440						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 07/07/2016: Unable to locate evidence of major depression of WS slope. Only slight depression on WS slope above pump. Though this is an up-and-over pipe, no positive closure device found. Inlet in LS standpipe is capped with a board. If no longer in use, needs to be abandoned properly. Siphon breaker/vent on WS needs a cover. Wave-wash run-up along river bank characteristic of much of Elk Slough. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)08/20/2013:Levee damage.Gate valve on WS not found. (P. Amatya - DWR)						
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 5.9 feet below the crown. Slant pump on the waterside (WS) slope. Vent/siphon breaker at the apex of the pipe on the WS. Concrete platform lies next to the pump on the WS. Concrete standpipe and service pole with meter at the landside (LS) toe. Property owner is Ken Pylman at (916) 775-1066. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 3.73)].						
FS Date: 7/7/2016						

Photo 3 of 3 : UCIP_FA_2018_50202_35017.jpg



WS view: soil erosion (depression) on levee slope.

LM Start	3.79	Rating **	M	Issue No.	116
LM End	3.79	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.367535 °	38.367535 °
				-121.552815 °	-121.552815 °
DWR ID	DWR_RD0150_03_f_2013_116				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_116_20180910_00114.jpg



View of slope instability on the waterside of the levee. Fall 2016

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

No Photos

Photo 1 of 1 : FA_2018_RD0150_17_93_20180910_00090.jpg



Erosion was found on the waterside toe of the levee. Spring 2016

Photo 1 of 1 : FA_2018_RD0150_17_126_20180910_00130.jpg



View of a fallen tree on the waterside toe of the levee. Fall 2017

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	4.38	Rating **	M	Issue No.	51
LM End	4.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.374269 °	38.374269 °
				-121.549385 °	-121.549385 °
DWR ID	DWR_RD0150_03_s_2012_51				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_51_20180910_00040.jpg



View of the pruning pile on the landside of the levee looking upstream during the fall 2013 inspection.

LM Start	4.39	Rating **	A/W	Issue No.	98	
LM End	4.43	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.374278 °		38.374278 °
				-121.549167 °		-121.548511 °
DWR ID	DWR_RD0150_03_f_2017_98					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Between 11 and 19 January 2017, waterside instability and erosion were observed on the east (left) bank of Elk Slough. The site is approximately 88 feet long, 7 feet below the levee crest, and includes a fallen tree and exposed root ball in the levee slope. See attached pages for photos.						
Site ID No:304						
Site Designation:LMA-130						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/18/2017						
Notes: Crown is a paved road. Near vertical on lower 1/2 of slope oncluding a fallen tree with exposed root ball. Serious because sloughing cuts into already oversteepened prism significantly and visible longitudinal cracking near crown.						

Photo 1 of 3 : LEVAL_FA_2018_304_2072.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	4.39	Rating **	A/W	Issue No.	98 (cont)	
LM End	4.43	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.374278°	38.374278°	
				-121.549167°	-121.548511°	
DWR ID	DWR_RD0150_03_f_2017_98					
Comment Code						

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Between 11 and 19 January 2017, waterside instability and erosion were observed on the east (left) bank of Elk Slough. The site is approximately 88 feet long, 7 feet below the levee crest, and includes a fallen tree and exposed root ball in the levee slope. See attached pages for photos.

Site ID No: 304

Site Designation: LMA-130

Repair Type: Erosion

Rating: Serious

Field Date: 7/18/2017

Notes: Crown is a paved road. Near vertical on lower 1/2 of slope oncluding a fallen tree with exposed root ball. Serious because sloughing cuts into already oversteepened prism significantly and visible longitudinal cracking near crown.

LM Start	4.39	Rating **	A/W	Issue No.	98 (cont)
LM End	4.43	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : LEVAL_FA_2018_304_2075.jpg



Photo 3 of 3 : LEVAL_FA_2018_304_2078.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	4.47	Rating **	A/W	Issue No.	108
LM End	4.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.374314 °	38.374344 °
				-121.547753 °	-121.547447 °
DWR ID	DWR_RD0150_03_f _ 2017_108				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Between 11 January 2017 and 7 February 2017, instability, cracking, and erosion of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 88 feet long. See attached pages for photos.					
Site ID No:305					
Site Designation:LMA-131					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: Crown is a paved road. Near vertical sloughing on the lower 2/3 of the prism. House and ramp/driveway on the LS. Serious because sloughing cuts into already oversteepened prism significantly.					

Photo 1 of 2 : LEVAL_FA_2018_305_2066.jpg



LM Start	4.47	Rating **	A/W	Issue No.	108 (cont)
LM End	4.49	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : LEVAL_FA_2018_305_2067.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	4.49	Rating **	A/W	Issue No.	80
LM End	4.49	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.374355°	38.374355°
				-121.547436°	-121.547436°
DWR ID	DWR_RD0150_03_s_2014_80				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_80_20180910_00075.jpg



View of an erosion site on the waterside toe of the levee looking upstream. Spring 2014

LM Start	4.49	Rating **	M	Issue No.	94
LM End	4.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.374367 °	38.374367 °
				-121.547327 °	-121.547327 °
DWR ID	DWR_RD0150_03_s_2012_94				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_94_20180910_00091.jpg



View of landscape on the landside shoulder of the levee. Fall 2016

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	4.63	Rating **	M	Issue No.	957
LM End	4.63	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.374934 °	38.374934 °
				-121.545029 °	-121.545029 °
DWR ID	22444				
Comment Code					
Inspector Comment					
FS_ID:19281 DS_ID:22444 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - service pole on LS. 1" conduit on WS.- levee toe cut out on landside.- walkway and gate. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 3.8 feet below the crown. Pump on pilings in the stream. Concrete standpipe at the landside (LS) toe. (P. Cook). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 4.71)]. FS Date: 8/20/2013					

LM Start	4.63	Rating **	M	Issue No.	957 (cont)
LM End	4.63	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_19281_32541.jpg



WS view: vertical pump on deck.

Photo 2 of 3 : UCIP_FA_2018_19281_32540.jpg



WS view: 1-inch GI conduit (left) and steel pipe (right)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	4.63	Rating **	M	Issue No.	957 (cont)	
LM End	4.63	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.374934 °	38.374934 °	
				-121.545029 °	-121.545029 °	
DWR ID	22444					
Comment Code						
Inspector Comment						
FS_ID:19281 DS_ID:22444 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - service pole on LS. 1" conduit on WS.- levee toe cut out on landside.- walkway and gate. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 3.8 feet below the crown. Pump on pilings in the stream. Concrete standpipe at the landside (LS) toe. (P. Cook). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 4.71)]. FS Date: 8/20/2013						

Photo 3 of 3 : UCIP_FA_2018_19281_32539.jpg



WS view: safety valve on steel pipe.

LM Start	4.79	Rating **	M	Issue No.	101
LM End	4.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.376562 °	38.376562 °
				-121.543016 °	-121.543016 °
DWR ID	DWR_RD0150_03_s_2017_101				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_101_20180910_00098.jpg



View of an erosion on the waterside toe of the levee. Spring 2017

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	4.90	Rating **	M	Issue No.	958
LM End	4.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.377718 °	38.377718 °
				-121.541413 °	-121.541413 °
DWR ID	22445				
Comment Code					
Inspector Comment					
FS_ID:19283 DS_ID:22445 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - seems abandoned.- may need proper abandonment FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 7.2 feet below the crown. Gate valve on the landside (LS) end. (D. Conner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 4.99)]. FS Date: 8/23/2013					

LM Start	4.90	Rating **	M	Issue No.	958 (cont)
LM End	4.90	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_19283_32565.jpg



WS view: steel pipe on levee slope and in the stream.

Photo 2 of 3 : UCIP_FA_2018_19283_32564.jpg



LS view: abandoned pump set and concrete box on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	4.90	Rating **	M	Issue No.	958 (cont)
LM End	4.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.377718 °	38.377718 °
				-121.541413 °	-121.541413 °
DWR ID	22445				
Comment Code					
Inspector Comment					
FS_ID:19283 DS_ID:22445 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - seems abandoned.- may need proper abandonment FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 7.2 feet below the crown. Gate valve on the landside (LS) end. (D. Conner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 4.99)]. FS Date: 8/23/2013					

Photo 3 of 3 : UCIP_FA_2018_19283_32563.jpg



LS view: abandoned pump and gate valve on levee slope.

LM Start	4.91	Rating **	C	Issue No.	9
LM End	4.91	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.377761 °	38.377761 °
				-121.541319 °	-121.541319 °
DWR ID	DWR_RD0150_03_s_2012_9				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	4.99	Rating **	M	Issue No.	36
LM End	4.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.378771°	38.378771°
				-121.540538°	-121.540538°
DWR ID	DWR_RD0150_03_f_2012_36				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : FA_2018_RD0150_17_36_20180910_00020.jpg



View of slope instability on the waterside shoulder of the levee during fall 2015 inspection.

LM Start	4.99	Rating **	M	Issue No.	36 (cont)
LM End	4.99	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_RD0150_17_36_20180910_00021.jpg



Slope instability was found on the waterside of the levee looking upstream.

LM Start	5.00	Rating **	M	Issue No.	124
LM End	5.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.378888°	38.378888°
				-121.540486°	-121.540486°
DWR ID	DWR_RD0150_03_s_2018_124				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.05	Rating **	M	Issue No.	81
LM End	5.05	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.379608 °	38.379608 °
				-121.540082 °	-121.540082 °
DWR ID	DWR_RD0150_03_f_2014_81				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_81_20180910_00076.jpg



View of erosion on the waterside of the levee looking downstream. Fall 2014

LM Start	5.05	Rating **	M	Issue No.	95
LM End	5.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.379617 °	38.379617 °
				-121.540058 °	-121.540058 °
DWR ID	DWR_RD0150_03_s_2016_95				
Comment Code					
PI : Pipe					
Inspector Comment					
Abandoned pipe was found on the landside slope of the levee.					

Photo 1 of 1 : FA_2018_RD0150_17_95_20180910_00092.jpg



View of an abandoned pipe on the landside slope of the levee. Spring 2016

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.06	Rating **	A/W	Issue No.	959
LM End	5.06	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.379697 °	38.379697 °	
			-121.540070 °	-121.540070 °	
DWR ID	22446				

Comment Code

Inspector Comment

FS_ID:49386
DS_ID:22446
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 5/2014 Recordation from permit files 13736 match photos and approximate location of UCIP confirmed crossing. 8/2013- a smaller pump on WS steel deck and was running.- seems 30-inch steel pipe goes through the levee.- GI electric conduit on WS and power pole on LS.
FIELD_STRUCT_DESC: 24-inch steel drainage discharge pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Pump and gate valve at the landside (LS) toe. (Plans to install a 24-inch discharge pipeline through the levee authorized under Permit No. 13736, 1983 - Reclamation District No. 150 [RD0150]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.15), 30-inch pipe referenced, invert elevation 14.5 feet below the crown].
FS Date: 8/23/2013

LM Start	5.06	Rating **	A/W	Issue No.	959 (cont)
LM End	5.06	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_49386_63902.jpg



WS view: pipe, steel deck, pressure tank, electric control box on stream bank.

Photo 2 of 3 : UCIP_FA_2018_49386_63901.jpg



WS view: a smaller pump on steel deck. It was working during the survey.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.06	Rating **	A/W	Issue No.	959 (cont)	
LM End	5.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.379697°	38.379697°	
				-121.540070°	-121.540070°	
DWR ID	22446					
Comment Code						
Inspector Comment						
FS_ID:49386 DS_ID:22446 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2014 Recordation from permit files 13736 match photos and approximate location of UCIP confirmed crossing.8/2013- a smaller pump on WS steel deck and was running.- seems 30-inch steel pipe goes through the levee.- GI electric conduit on WS and power pole on LS. FIELD_STRUCT_DESC: 24-inch steel drainage discharge pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Pump and gate valve at the landside (LS) toe. (Plans to install a 24-inch discharge pipeline through the levee authorized under Permit No. 13736, 1983 - Reclamation District No. 150 [RD0150]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.15), 30-inch pipe referenced, invert elevation 14.5 feet below the crown]. FS Date: 8/23/2013						

Photo 3 of 3 : UCIP_FA_2018_49386_63900.jpg



WS view: siphon breaker on pipe in steel deck on stream bank.

LM Start	5.09	Rating **	M	Issue No.	48
LM End	5.09	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.380110 °	38.380110 °
				-121.540061 °	-121.540061 °
DWR ID	DWR_RD0150_03_f_2015_48				
Comment Code					
ST : Stairway					
Inspector Comment					
Unpermitted stairway.					

Photo 1 of 1 : FA_2018_RD0150_17_48_20180910_00037.jpg



View of a stairway on the waterside of the levee. Fall 2015

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0150 Merrit Island

View of varying elevations in the crown of the levee at the transition from county road to access road.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.15	Rating **	A/W	Issue No.	111 (cont)	
LM End	5.15	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.380906 °	38.380928 °	
				-121.540344 °	-121.540364 °	
DWR ID	DWR_RD0150_03_f_2017_111					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:On 19 January 2017, two large trees were observed to have fallen into the water exposing the root ball on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long. See attached pages for photos.						
Site ID No:309						
Site Designation:LMA-135						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: 2 oak trees fell over at the WS toe and took root balls out of the lower slope about 5 ft deep just above the water line. Area of concern because damage is only on the lower slope near the water line.						

Photo 2 of 3 : LEVAL_FA_2018_309_2038.jpg



Photo 3 of 3 : LEVAL_FA_2018_309_2039.jpg



LM Start	5.15	Rating **	A/W	Issue No.	111 (cont)
LM End	5.15	Issue Type +	Ma	Location *	WS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

Photo 1 of 1 : FA_2018_RD0150_17_72_20180910_00064.jpg




11/03/2016

View of tree stump and broken tree on the waterside toe of the levee.
Fall 2016

No Photos

Photo 1 of 1 : FA_2018_RD0150_17_96_20180910_00093.jpg



Broken tree roots and tree trunks were found on the waterside toe of the levee. Spring 2016

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.40	Rating **	A/W	Issue No.	114
LM End	5.41	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.382169 °	38.382206 °
				-121.544597 °	-121.544731 °
DWR ID	DWR_RD0150_03_f_2017_114				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Cracking and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 40 feet long. See attached pages for photos.					
Site ID No:310					
Site Designation:LMA-136					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Large oak tree fell over here and took a root ball with it. At least 15 ft wide by 5ft deep soil missing, 5 ft from crown. Longitudinal cracks for 40 ft along crown hinge. Serious because prism is impacted and cracking is visible beyond the damaged area.					

Photo 1 of 3 : LEVAL_FA_2018_310_2188.jpg



LM Start	5.40	Rating **	A/W	Issue No.	114 (cont)
LM End	5.41	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : LEVAL_FA_2018_310_2190.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

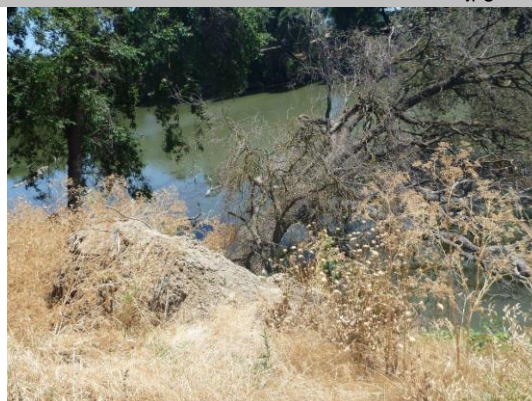
Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.40	Rating **	A/W	Issue No.	114 (cont)
LM End	5.41	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.382169 °	38.382206 °
				-121.544597 °	-121.544731 °
DWR ID	DWR_RD0150_03_f _ 2017_114				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Cracking and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 40 feet long. See attached pages for photos.					
Site ID No:310					
Site Designation:LMA-136					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Large oak tree fell over here and took a root ball with it. At least 15 ft wide by 5ft deep soil missing, 5 ft from crown. Longitudinal cracks for 40 ft along crown hinge. Serious because prism is impacted and cracking is visible beyond the damaged area.					

Photo 3 of 3 : LEVAL_FA_2018_310_2191.jpg



LM Start	5.49	Rating **	N	Issue No.	74
LM End	5.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383051 °	38.383051 °
				-121.545735 °	-121.545735 °
DWR ID	DWR_RD0150_03_f_2016_74				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Tree stump and broken tree on the waterside shoulder of the levee need to be removed.					

Photo 1 of 1 : FA_2018_RD0150_17_74_20180910_00066.jpg



View of tree trunks on the waterside shoulder of the levee. Fall 2016

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.50	Rating **	M	Issue No.	12 (cont)
LM End	5.50	Issue Type +	En	Location *	LS

Prunings were found on the landside toe of the levee looking upstream.

A photograph showing a vineyard with rows of grapevines in the background. In the foreground, there is a large pile of cut branches and debris on a dry, grassy field. The sky is overcast.

View of pruning pile on the landside toe of the levee looking upstream during the fall 2013 inspection.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

View of landowner's metal debris at levee toe. Fall 2018

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.56	Rating **	N	Issue No.	68
LM End	5.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383697°	38.383697°
				-121.545201°	-121.545201°
DWR ID	DWR_RD0150_03_s_2012_68				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_68_20180910_00060.jpg



Tree stump was found on the waterside of the levee looking upstream.
Fall 2011

LM Start	5.69	Rating **	C	Issue No.	41
LM End	5.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383969 °	38.383969 °
				-121.542806 °	-121.542806 °
DWR ID	DWR_RD0150_03_s_2012_41				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.70	Rating **	M	Issue No.	960	
LM End	5.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.383996 °	38.383996 °	
				-121.542638 °	-121.542638 °	
DWR ID	22448					
Comment Code						
Inspector Comment						
FS_ID:28265						
DS_ID:22448						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - levee toe cut out at open end of the pipe.- service pole and control box on river bank.						
FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 7.8 feet below the crown. Pump and gate valve on a steel platform on the waterside (WS). (Plans for the installation of a vertical unit irrigation pumping plant and a 10-inch, 10-gauge steel discharge pipe through the levee authorized under Permit No. 1167, 1947 - Darrell Connor). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.80)].						
FS Date: 8/23/2013						

LM Start	5.70	Rating **	M	Issue No.	960 (cont)
LM End	5.70	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_28265_51974.jpg



WS view: walkway, pipe, pump and support deck on river bank.

Photo 2 of 3 : UCIP_FA_2018_28265_51973.jpg



WS view: electric control box and power pole.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.70	Rating **	M	Issue No.	960 (cont)	
LM End	5.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.383996 °	38.383996 °	
				-121.542638 °	-121.542638 °	
DWR ID	22448					
Comment Code						
Inspector Comment						
FS_ID:28265 DS_ID:22448 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - levee toe cut out at open end of the pipe.- service pole and control box on river bank. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 7.8 feet below the crown. Pump and gate valve on a steel platform on the waterside (WS). (Plans for the installation of a vertical unit irrigation pumping plant and a 10-inch, 10-gauge steel discharge pipe through the levee authorized under Permit No. 1167, 1947 - Darrell Connor). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.80)]. FS Date: 8/23/2013						

Photo 3 of 3 : UCIP_FA_2018_28265_51972.jpg



WS view: pipe, pump and gate valve on pump deck.

LM Start	5.71	Rating **	U	Issue No.	104
LM End	5.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.384026 °	38.384026 °
				-121.542455 °	-121.542455 °
DWR ID	DWR_RD0150_03_s_2017_104				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Animal hole appears to be inactive but should be backfilled.					

Photo 1 of 2 : FA_2018_RD0150_17_104_20181115_00196.jpg



View of animal hole on landside toe. Fall 2018

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.71	Rating **	U	Issue No.	104 (cont)
LM End	5.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.384026 °	38.384026 °
				-121.542455 °	-121.542455 °
DWR ID	DWR_RD0150_03_s_2017_104				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Animal hole appears to be inactive but should be backfilled.					

Photo 2 of 2 : FA_2018_RD0150_17_104_20180910_00099.jpg



View of a rodent hole on the landside toe of the levee. Spring 2017

LM Start	5.73	Rating **	C	Issue No.	127
LM End	5.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.384061 °	38.384061 °
				-121.542169 °	-121.542169 °
DWR ID	DWR_RD0150_03_f_2017_127				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	5.78	Rating **	M	Issue No.	28
LM End	5.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.384333 °	38.384333 °
				-121.541310 °	-121.541310 °
DWR ID	DWR_RD0150_03_s_2012_28				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_28_20180910_00010.jpg




Wild growth was found on the waterside slope of the levee looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspection Report By Mile - Fall 2018


Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

Photo 1 of 1 : FA_2018_RD0150_17_56_20180910_00047.jpg



View of fence around a horse pen along the shoulder of the levee and the landward slope.

Photo 1 of 1 : FA_2018_RD0150_17_57_20180910_00048.jpg



View of a tree trunk lying on the landward slope blocking visibility.

Photo 1 of 1 : FA_2018_RD0150_17_58_20180910_00049.jpg



Building & associated landscaping on levee crown.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.91	Rating **	U	Issue No.	21
LM End	5.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.385752°	38.386703°
				-121.539905°	-121.540042°
DWR ID	DWR_RD0150_03_s_2012_21				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_21_20180910_00006.jpg



Landscaping was found on the landside of the levee looking upstream.
Fall 2011

LM Start	5.95	Rating **	M	Issue No.	961	
LM End	5.95	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.386402 °	38.386402 °	
				-121.539834 °	-121.539834 °	
DWR ID	22451					
Comment Code						
Inspector Comment						
FS_ID:19403						
DS_ID:22451						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - pipe ends open on both sides of the levee.- abandoned concrete box on WS.- two abandoned steel pipes (6" and 1") also found on WS. - needs proper abandonment						
FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe through the levee, invert elevation 2.5 feet below the crown. Pump and gate valve removed prior to October 1962. Steel plate welded to the waterside (WS) end. Power pole and two anchors on the landside (LS) slope. (Warren Bogle). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 6.06)].						
FS Date: 8/23/2013						

Photo 1 of 3 : UCIP_FA_2018_19403_32942.jpg



WS view: open ended 6" steel pipe (top-left), 1" steel pipe (bottom), and
another 6" steel pipe (right) on levee slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	5.95	Rating **	M	Issue No.	961 (cont)	
LM End	5.95	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.386402 °	38.386402 °	
				-121.539834 °	-121.539834 °	
DWR ID	22451					
Comment Code						
Inspector Comment						
FS_ID:19403 DS_ID:22451 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe ends open on both sides of the levee.- abandoned concrete box on WS.- two abandoned steel pipes (6" and 1") also found on WS. - needs proper abandonment FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe through the levee, invert elevation 2.5 feet below the crown. Pump and gate valve removed prior to October 1962. Steel plate welded to the waterside (WS) end. Power pole and two anchors on the landside (LS) slope. (Warren Bogle). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 6.06)]. FS Date: 8/23/2013						

LM Start	5.95	Rating **	M	Issue No.	961 (cont)
LM End	5.95	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_19403_32941.jpg



WS view: Abandoned concrete box (top). Open ended 6" steel pipe, 1" steel pipe, and another 6" steel pipe on levee slope.

Photo 3 of 3 : UCIP_FA_2018_19403_32943.jpg



LS view: open end steel pipe on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	6.13	Rating **	U	Issue No.	24
LM End	6.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.388535 °	38.389391 °
				-121.541657 °	-121.541901 °
DWR ID	DWR_RD0150_03_s_2012_24				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_24_20180910_00007.jpg



Oleander on landward slope blocking view of levee.

LM Start	6.23	Rating **	N	Issue No.	49
LM End	6.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.389658 °	38.389658 °
				-121.541518 °	-121.541518 °
DWR ID	DWR_RD0150_03_s_2012_49				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_49_20180910_00038.jpg



View of tree stumps on the waterward slope.

LM Start	6.23	Rating **	M	Issue No.	25
LM End	6.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.389700 °	38.389808 °
				-121.541462 °	-121.541285 °
DWR ID	DWR_RD0150_03_s_2012_25				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	6.25	Rating **	M	Issue No.	99
LM End	6.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.389857 °	38.389857 °
				-121.541193 °	-121.541193 °
DWR ID	DWR_RD0150_03_s_2016_99				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Landowner trees on the landside slope of the levee are unpermitted and need to be removed.					

Photo 1 of 1 : FA_2018_RD0150_17_99_20180910_00097.jpg



View of planted trees on the landside slope of the levee. Spring 2016

LM Start	6.25	Rating **	U	Issue No.	26
LM End	6.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.389858 °	38.390115 °
				-121.541155 °	-121.540657 °
DWR ID	DWR_RD0150_03_s_2012_26				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_26_20180910_00008.jpg



Landscaping on landward slope.

LM Start	6.45	Rating **	M	Issue No.	60
LM End	6.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.391616 °	38.391616 °
				-121.538378 °	-121.538378 °
DWR ID	DWR_RD0150_03_s_2012_60				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_60_20180910_00051.jpg



View of landscaping along the landward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	6.52	Rating **	M	Issue No.	83
LM End	6.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.392580 °	38.392580 °
				-121.538059 °	-121.538059 °
DWR ID	DWR_RD0150_03_f_2014_83				
Comment Code					
PR : Prunings					
Inspector Comment					

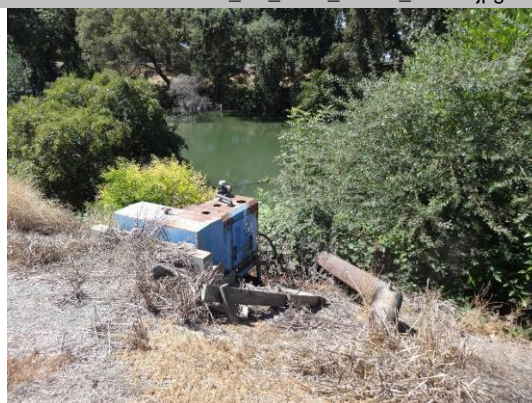
Photo 1 of 1 : FA_2018_RD0150_17_83_20180910_00078.jpg



Prunings were found on the landside toe of the levee looking upstream.
Fall 2014

LM Start	6.63	Rating **	M	Issue No.	962
LM End	6.63	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.394182 °	38.394182 °
				-121.538609 °	-121.538609 °
DWR ID	22457				
Comment Code					
Inspector Comment					
FS_ID:42692 DS_ID:22457 EP_NO: 14650 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Diesel powered slant pump on the waterside (WS). Concrete distribution box on the landside (LS) toe. (Plans to install a slant mounted pump on the WS of the levee with a 12-inch discharge pipe through the levee authorized under Permit No. 14650, 1987 - Webber Farms). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/23/2013					

Photo 1 of 3 : UCIP_FA_2018_42692_35082.jpg



WS view: steel pipe (right) and diesel pump on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	6.63	Rating **	M	Issue No.	962 (cont)	
LM End	6.63	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.394182 °		38.394182 °
				-121.538609 °		-121.538609 °
DWR ID	22457					
Comment Code						
Inspector Comment						
FS_ID:42692						
DS_ID:22457						
EP_NO: 14650						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears abandoned and if so should be done so properly.						
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Diesel powered slant pump on the waterside (WS). Concrete distribution box on the landside (LS) toe. (Plans to install a slant mounted pump on the WS of the levee with a 12-inch discharge pipe through the levee authorized under Permit No. 14650, 1987 - Webber Farms). [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 8/23/2013						

LM Start	6.63	Rating **	M	Issue No.	962 (cont)
LM End	6.63	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_42692_35081.jpg



WS view: diesel pump on steepest levee slope.

Photo 3 of 3 : UCIP_FA_2018_42692_35080.jpg



WS view: air vent on steel pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	6.70	Rating **	U	Issue No.	46
LM End	6.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.395118 °	38.395118 °
				-121.538613 °	-121.538613 °
DWR ID	DWR_RD0150_03_f_2018_46				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove wild growth down to 20 ft. from levee shoulder.					

Photo 1 of 1 : FA_2018_RD0150_17_46_20181115_00198.jpg



View of wild growth within levee easement. Fall 2018

LM Start	6.78	Rating **	U	Issue No.	30
LM End	6.80	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.395791°	38.395869°
				-121.537399°	-121.537101°
DWR ID	DWR_RD0150_03_s_2012_30				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_30_20180910_00011.jpg



Landscaping on landward slope blocking view

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	6.79	Rating **	C	Issue No.	119
LM End	6.80	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.395833 °	38.395850 °	
			-121.537150 °	-121.537083 °	
DWR ID	DWR_RD0150_03_f_2017_119				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: On 10 February 2017, instability, cracking, and sloughing of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 20 feet long. See attached pages for photos. Site ID No: 312 Site Designation: LMA-139 Repair Type: Stability Rating: Critical Field Date: 7/19/2017 Notes: Crown is paved. Serious because erosion cuts into prism significantly, but not into crown. Worst damage is above a fallen tree, sloughing comes within 6 ft of crown here. Fall 2018 DWR Inspector: LMA repaired slope damage.					

No Photos

LM Start	6.80	Rating **	C	Issue No.	107
LM End	6.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.395893 °	38.395893 °	
			-121.537041 °	-121.537041 °	
DWR ID	DWR_RD0150_03_s_2018_107				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	6.82	Rating **	M	Issue No.	13
LM End	6.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.395998 °	38.395470 °
				-121.536613 °	°
DWR ID	DWR_RD0150_03_s_2012_13				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_13_20180910_00004.jpg



Fence was found on the landside of the levee looking downstream. Fall 2011

LM Start	6.85	Rating **	U	Issue No.	933
LM End	6.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.396187 °	38.396989 °
				-121.536180 °	-121.535151 °
DWR ID	DWR_RD0150_03_s_2012_933				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping needs to be maintained.					

Photo 1 of 1 : FA_2018_RD0150_17_933_20180910_00135.jpg



View of the landscape on the landside shoulder of the levee looking downstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	6.86	Rating **	C	Issue No.	120							
LM End	6.87	Issue Type +	Ma	Location *	WS							
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.396233 °	38.396294 °								
			-121.536064 °	-121.535947 °								
DWR ID	DWR_RD0150_03_f_2017_120											
Comment Code												
Inspector Comment												
Levee Evaluation Comments Description: On 10 February 2017, instability, cracking, and sloughing of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 40 feet long. See attached pages for photos. Site ID No: 313 Site Designation: LMA-140 Repair Type: Stability Rating: Critical Field Date: 7/19/2017 Notes: Crown is a paved road. Serious because of extensive cracking up to hinge, high traffic volume due to nearby winery and lower 2/3 - 1/2 of slope is near vertical. Fall 2018 DWR Inspector: LMA repaired cracking and erosion damage.												

No Photos

LM Start	6.90	Rating **	M	Issue No.	61							
LM End	6.90	Issue Type +	Ob	Location *	WS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Erosion / Bank Caving		38.396655 °	38.396655 °								
			-121.535485 °	-121.535485 °								
DWR ID	DWR_RD0150_03_s_2012_61											
Comment Code												
E1 : Note and monitor erosion site.												
Inspector Comment												

Photo 1 of 2 : FA_2018_RD0150_17_61_20180910_00052.jpg



View of erosion on the waterside of the levee during spring 2015 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	6.90	Rating **	M	Issue No.	61 (cont)	
LM End	6.90	Issue Type +	Ob	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.396655 °		38.396655 °
				-121.535485 °		-121.535485 °
DWR ID	DWR_RD0150_03_s_2012_61					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						

Photo 2 of 2 : FA_2018_RD0150_17_61_20180910_00053.jpg



Erosion was found on the waterside slope of the levee looking downstream. This updated picture was taken during fall 2012 inspection.

LM Start	6.93	Rating **	M	Issue No.	31
LM End	6.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.397021 °	38.397540 °
				-121.535151 °	-121.535183 °
DWR ID	DWR_RD0150_03_s_2012_31				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_31_20180910_00012.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	6.95	Rating **	A/W	Issue No.	121
LM End	6.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.397197°	38.397225°
				-121.535089°	-121.535092°
DWR ID	DWR_RD0150_03_f_2017_121				
Comment Code					

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos.
Site ID No: 314

Site Designation: LMA-141

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/19/2017

Notes: Area of concern because the site is so small and only looks slightly worse than the surrounding levee slope. Crown is a paved road.

LM Start	6.95	Rating **	A/W	Issue No.	121 (cont)
LM End	6.95	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : LEVAL_FA_2018_314_2322.jpg



Photo 2 of 3 : LEVAL_FA_2018_314_2323.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

Hand-drawn sketch of a road layout with dimensions and notes.

Dimensions:

- 10' off shoulder, 10' wide
- 10' wide
- 20' to center
- 20' to center
- 20' to center

Notes:

- 10' off shoulder, 10' wide
- a few ft below ground
- doesn't look too much worse than surrounding lanes

Other markings:

- RD-150
- LMA-141

Form fields (partially filled):

Drawn	Date	Checked	Date

Form fields (partially filled):

Designed	Checked

05/27/2011

V6 : Landscaping
Inspector Comment

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	7.29	Rating **	U	Issue No.	32
LM End	7.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.401738 °	38.402296 °
				-121.537127 °	-121.537678 °
DWR ID	DWR_RD0150_03_s_2012_32				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : FA_2018_RD0150_17_32_20180910_00013.jpg



Vegetation on the landside of the levee looking upstream. This picture was taken during spring 2012 inspection.

LM Start	7.29	Rating **	U	Issue No.	32 (cont)
LM End	7.34	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2018_RD0150_17_32_20180910_00014.jpg



Landscaping on landward slope blocking view

LM Start	7.40	Rating **	M	Issue No.	84
LM End	7.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403047°	38.403047°
				-121.538433°	-121.538433°
DWR ID	DWR_RD0150_03_s_2012_84				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_84_20180910_00079.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	7.44	Rating **	U	Issue No.	934
LM End	7.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403566 °	38.403566 °
				-121.538886 °	-121.538886 °
DWR ID	DWR_RD0150_03_s_2012_934				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_934_20180910_00136.jpg



Landscaping was blocking the visibility on the landside of the levee looking downstream.

LM Start	7.47	Rating **	M	Issue No.	935
LM End	7.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.403795 °	38.403795 °
				-121.539205 °	-121.539205 °
DWR ID	DWR_RD0150_03_s_2012_935				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 2 : FA_2018_RD0150_17_935_20180910_00137.jpg



Prunings were found on the landside of the levee looking upstream.

LM Start	7.47	Rating **	M	Issue No.	935 (cont)
LM End	7.47	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2018_RD0150_17_935_20180910_00138.jpg




Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2011 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

Photo 1 of 2 : FA_2018_RD0150_17_52_20181115_00201.jpg



View of the tree trunk on the waterside toe of the levee. Fall 2018

Photo 2 of 2 : FA_2018_RD0150_17_52_20180910_00041.jpg



View of the tree trunk on the waterside toe of the levee. Fall 2015

Photo 1 of 1 : FA_2018_RD0150_17_112_20180910_00107.jpg



03/28/2017

View of firewood on the waterside shoulder of the levee looking upstream. Spring 2017

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2018


Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

Photo 1 of 1 : FA_2018_RD0150_17_63_20181115_00202.jpg




View of firewood on levee shoulder. Fall 2018

Photo 1 of 1 : FA_2018_RD0150_17_396_20180910_00134.jpg



Slope instability was found on the waterside toe of the levee looking

Photo 1 of 1 : FA_2018_RD0150_17_129_20180910_00133.jpg



View of a tree stump on the waterside shoulder of the levee. Fall 2017

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.02	Rating **	M	Issue No.	92 (cont)	
LM End	8.02	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.409130 °		38.409130 °
				-121.539971 °		-121.539971 °
DWR ID	DWR_RD0150_03_s_2014_92					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						

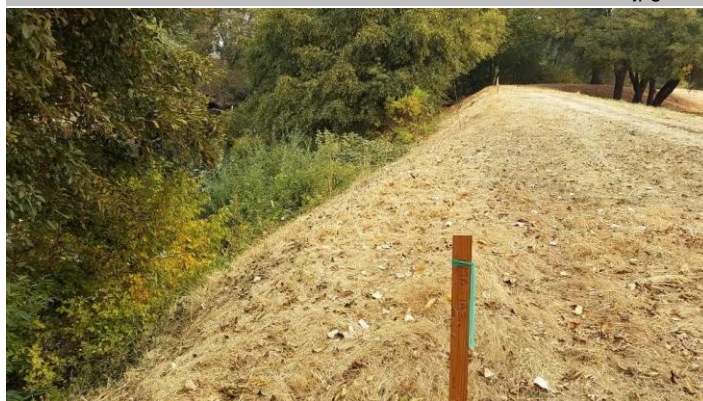
Photo 2 of 2 : FA_2018_RD0150_17_92_20180910_00089.jpg



Slope instability was found on the waterside of the levee looking downstream.

LM Start	8.05	Rating **	A/W	Issue No.	122
LM End	8.05	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.409228 °	38.409233 °
				-121.539389 °	-121.539356 °
DWR ID	DWR_RD0150_03_f _ 2017_122				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos.					
Site ID No:315					
Site Designation:LMA-142					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: The erosion extends along most of the slope. Nearby WS banks are all very steep (1:1 or less). Serious because the erosion extend along the entire slope, but not into the crown. Fall 2018 DWR Inspector: Erosion not visible during this inspection but is marked.					

Photo 1 of 4 : FA_2018_RD0150_17_122_20181115_00204.jpg



View of waterside slope. Fall 2018

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

Inspector: Erosion not visible during this inspection but is marked.

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**Flood Control Project Maintenance
Levee Inspections**

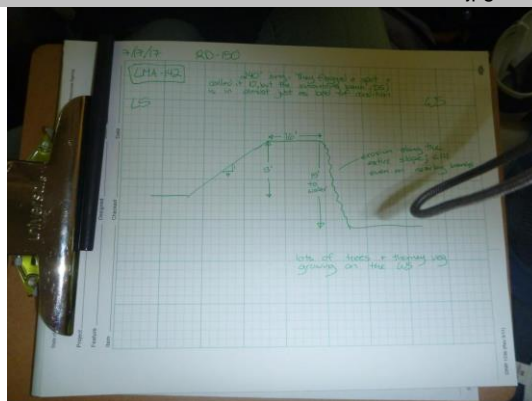
Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.05	Rating **	A/W	Issue No.	122 (cont)
LM End	8.05	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.409228 °	38.409233 °
				-121.539389 °	-121.539356 °
DWR ID	DWR_RD0150_03_f _ 2017_122				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos.					
Site ID No:315					
Site Designation:LMA-142					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: The erosion extends along most of the slope. Nearby WS banks are all very steep (1:1 or less). Serious because the erosion extend along the entire slope, but not into the crown. Fall 2018 DWR Inspector: Erosion not visible during this inspection but is marked.					

Photo 4 of 4 : LEVAL_FA_2018_315_2187.jpg



LM Start	8.05	Rating **	M	Issue No.	82
LM End	8.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.409224 °	38.409224 °
				-121.539350 °	-121.539350 °
DWR ID	DWR_RD0150_03_f_2013_82				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_82_20180910_00077.jpg



Prunings were found on the landside toe of the levee looking upstream.
Fall 2014

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.20	Rating **	U	Issue No.	963	
LM End	8.20	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.408619 °	38.408619 °	
				-121.536768 °	-121.536768 °	
DWR ID	22466					
Comment Code						
Inspector Comment						
FS_ID:53335 DS_ID:22466 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 06/05/2018: Same as last inspection so the crossing remains Urgent due to caved in levee below pipe at gate valve; needs proper abandonment (DWR UCIP - D. Sanoski).07/08/2016: Needs proper abandonment. Levee caved in below pipe at gate valve on WS. Discussed abandonment with Warren Bogle of Colby Ranch. (K. Fazel - UCIP)08/23/2013: Needs proper abandonment (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 13.8 feet below the crown. Gate valve on the waterside (WS) slope. Pilings in the stream, but no pump was found. Service pole with guy wire on the landside (LS) slope. Standpipe on the LS slope. (A. Colby). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 8.34)]. FS Date: 6/5/2018 3:30:00 PM						

Photo 1 of 3 : UCIP_FA_2018_53335_33627.jpg



WS view: pipe visible on levee slope and in the stream.

LM Start	8.20	Rating **	U	Issue No.	963 (cont)
LM End	8.20	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_53335_33626.jpg



WS view: abandoned gate valve found on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.20	Rating **	U	Issue No.	963 (cont)							
LM End	8.20	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		38.408619 °	38.408619 °								
			-121.536768 °	-121.536768 °								
DWR ID	22466											
Comment Code												
Inspector Comment												
FS_ID:53335 DS_ID:22466 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 06/05/2018: Same as last inspection so the crossing remains Urgent due to caved in levee below pipe at gate valve; needs proper abandonment (DWR UCIP - D. Sanoski).07/08/2016: Needs proper abandonment. Levee caved in below pipe at gate valve on WS. Discussed abandonment with Warren Bogle of Colby Ranch. (K. Fazel - UCIP)08/23/2013: Needs proper abandonment (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 13.8 feet below the crown. Gate valve on the waterside (WS) slope. Pilings in the stream, but no pump was found. Service pole with guy wire on the landside (LS) slope. Standpipe on the LS slope. (A. Colby). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 8.34)]. FS Date: 6/5/2018 3:30:00 PM												

Photo 3 of 3 : UCIP_FA_2018_53335_33625.jpg



LS view: no pipe and structure found on landside.

LM Start	8.26	Rating **	M	Issue No.	65							
LM End	8.26	Issue Type +	Ma	Location *	WS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Erosion / Bank Caving		38.408213 °	38.408213 °								
			-121.535911 °	-121.535911 °								
DWR ID	DWR_RD0150_03_f_2015_65											
Comment Code												
E1 : Note and monitor erosion site.												
Inspector Comment												

Photo 1 of 1 : FA_2018_RD0150_17_65_20180910_00056.jpg



View of erosion on the waterside of the levee. Fall 2015

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

Photo 1 of 1 : FA_2018_RD0150_17_87_20181115_00205.jpg




View of prunings left on crown. Fall 2018

Photo 1 of 1 : FA_2018_RD0150_17_66_20180910_00057.jpg



View of erosion on the waterside of the levee. Spring 2015

Photo 1 of 2 : FA_2018_RD0150_17_67_20180910_00058.jpg



04/08/2014

View of the erosion on the waterside shoulder looking upstream during

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.33	Rating **	M	Issue No.	67 (cont)	
LM End	8.33	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.407958 °	38.407958 °	
				-121.534583 °	-121.534583 °	
DWR ID	DWR_RD0150_03_s_2012_67					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						

Photo 2 of 2 : FA_2018_RD0150_17_67_20180910_00059.jpg



Erosion was found on the waterside shoulder of the levee looking upstream. This picture was taken during fall 2012 inspection.

LM Start	8.35	Rating **	A/W	Issue No.	123
LM End	8.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.407983 °	38.407992 °
				-121.534322 °	-121.534289 °
DWR ID	DWR_RD0150_03_f_2017_123				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long. See attached pages for photos.					
Site ID No:316					
Site Designation:LMA-143					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: 3 large trees in/ajacent to site including a fallen tree in the middle of the erosion. Erosion on almost the whole slope, but doesn?t cut into the crown. Serious because erosion cuts into levee significantly here.					

Photo 1 of 3 : LEVAL_FA_2018_316_2180.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

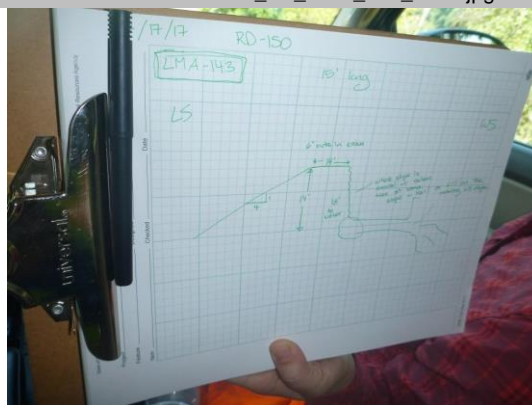
LM Start	8.35	Rating **	A/W	Issue No.	123 (cont)							
LM End	8.35	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.407983 °	38.407992 °								
			-121.534322 °	-121.534289 °								
DWR ID	DWR_RD0150_03_f_2017_123											
Comment Code												
Inspector Comment												
<p>Levee Evaluation Comments</p> <p>Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long. See attached pages for photos.</p> <p>Site ID No: 316</p> <p>Site Designation: LMA-143</p> <p>Repair Type: Erosion</p> <p>Rating: Serious</p> <p>Field Date: 7/17/2017</p> <p>Notes: 3 large trees in/adjacent to site including a fallen tree in the middle of the erosion. Erosion on almost the whole slope, but doesn't cut into the crown. Serious because erosion cuts into levee significantly here.</p>												

Photo 2 of 3 : LEVAL_FA_2018_316_2181.jpg



LM Start	8.35	Rating **	A/W	Issue No.	123 (cont)
LM End	8.35	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL_FA_2018_316_2182.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.37	Rating **	M	Issue No.	88
LM End	8.37	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.408155 °	38.408155 °
				-121.533982 °	-121.533982 °
DWR ID	DWR_RD0150_03_s _ 2012_88				
Comment Code					
PO : Pole					
Inspector Comment					

No Photos

LM Start	8.37	Rating **	C	Issue No.	89
LM End	8.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.408153 °	38.408153 °
				-121.533980 °	-121.533980 °
DWR ID	DWR_RD0150_03_s _ 2012_89				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.37	Rating **	M	Issue No.	964	
LM End	8.37	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.408188 °	38.408188 °	
				-121.533935 °	-121.533935 °	
DWR ID	22467					
Comment Code						
Inspector Comment						
FS_ID:41648 DS_ID:22467 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - walkway in poor functional condition- an abandoned 8-inch steel pipe next to 12" pipe. This 8" pipe might have merged with 12" pipe under the levee .- Pipe and pump inside concrete masonry wall. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 13 feet below the crown. Pump and gate valve in a pump house on the waterside (WS) slope. Concrete distribution box at the landside (LS) toe. Service pole on the WS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 8.51)]. FS Date: 8/23/2013						

LM Start	8.37	Rating **	M	Issue No.	964 (cont)
LM End	8.37	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_41648_33642.jpg



WS view: walkway and inlet pipe on levee slope.

Photo 2 of 3 : UCIP_FA_2018_41648_33641.jpg



WS view: pump, gate valve, and airvent on pipe inside concrete masonry box.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.37	Rating **	M	Issue No.	964 (cont)	
LM End	8.37	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.408188 °	38.408188 °	
				-121.533935 °	-121.533935 °	
DWR ID	22467					
Comment Code						
Inspector Comment						
FS_ID:41648 DS_ID:22467 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - walkway in poor functional condition- an abandoned 8-inch steel pipe next to 12" pipe. This 8" pipe might have merged with 12" pipe under the levee .- Pipe and pump inside concrete masonry wall. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 13 feet below the crown. Pump and gate valve in a pump house on the waterside (WS) slope. Concrete distribution box at the landside (LS) toe. Service pole on the WS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 8.51)]. FS Date: 8/23/2013						

Photo 3 of 3 : UCIP_FA_2018_41648_33640.jpg



WS view: 8-inch steel pipe (right) next to 12" pipe (left). This 8" pipe might have merged with 12" pipe under the levee .

LM Start	8.38	Rating **	M	Issue No.	69
LM End	8.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.408238 °	38.409291 °
				-121.533866 °	-121.532702 °
DWR ID	DWR_RD0150_03_s_2012_69				
Comment Code					
DT : Ditch					
Inspector Comment					
Irrigation ditch runs along landside toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.46	Rating **	N	Issue No.	90
LM End	8.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409220°	38.409220°
				-121.532801°	-121.532801°
DWR ID	DWR_RD0150_03_s_2012_90				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_90_20180910_00084.jpg



A tree stump was found on the landside of the levee looking upstream.

LM Start	8.50	Rating **	N	Issue No.	55
LM End	8.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409559 °	38.409559 °
				-121.532356 °	-121.532356 °
DWR ID	DWR_RD0150_03_s_2012_55				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_55_20180910_00046.jpg

A tree stump was found on the waterside of the levee looking upstream.
Fall 2011

LM Start	8.72	Rating **	M	Issue No.	7
LM End	8.72	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.411593°	38.411593°
				-121.529143°	-121.529143°
DWR ID	DWR_RD0150_03_s_2012_7				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_7_20180910_00001.jpg



Broken concrete pipe was left on the waterside slope of the levee. The picture was taken from the crown looking upstream. Spring 2011

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	8.95	Rating **	M	Issue No.	128
LM End	8.95	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.414831 °	38.414831 °
				-121.528982 °	-121.528982 °
DWR ID	DWR_RD0150_03_s_2018_128				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remainder of downed tree remains on levee crown and shoulder.					

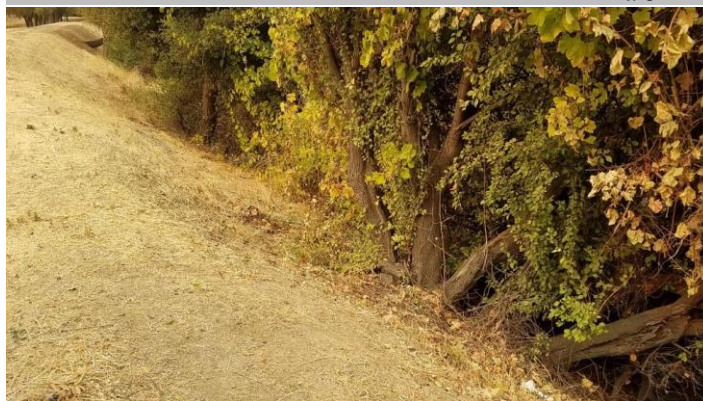
Photo 1 of 1 : FA_2018_RD0150_17_128_20180910_00132.jpg



Downed tree blocking crown looking north. Spring 2018

LM Start	9.20	Rating **	U	Issue No.	97
LM End	9.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.413388 °	38.413388 °
				-121.526130 °	-121.526130 °
DWR ID	DWR_RD0150_03_f_2018_97				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Grapevines block visibility and need to be cleared.					

Photo 1 of 1 : FA_2018_RD0150_17_97_20181115_00206.jpg



View of dense vegetation that blocks visibility of levee slope. Fall 2018

LM Start	9.21	Rating **	N	Issue No.	59
LM End	9.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.413268 °	38.413268 °
				-121.525929 °	-121.525929 °
DWR ID	DWR_RD0150_03_s_2012_59				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_59_20180910_00050.jpg



A tree stump was found on the waterside of the levee looking upstream. Fall 2011

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 0150 Merrit Island

LM Start	9.31	Rating **	U	Issue No.	73 (cont)
LM End	9.35	Issue Type +	Ma	Location *	WS



View of dense vegetation within levee easement. Fall 2018



View of fallen tree on levee slope. Fall 2018



Thin/trim trees to allow for visibility of top 20' of waterward slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/09/2018 11/09/2018	Luz Dial

LM Start	9.39	Rating **	M	Issue No.	950
LM End	9.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.413560 °	38.413560 °
				-121.522936 °	-121.522936 °
DWR ID	DWR_RD0150_03_s _ 2012_950				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0150_17_950_20180910_00140.jpg



Equipment was found on the landside of the levee looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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